

```

chain nodes :
  10 22 28 30 32 34 35 38 39 40 41 42 43 44 45 46 50
ring nodes :
  1 2 3 4 5 6 13 14 15 16 17 18 19 20 21
ring/chain nodes :
  7
chain bonds :
  2-28 4-50 32-34 32-35 38-39 38-40 38-42 41-42 43-44 43-45 43-46
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 19-20 19-21 20-21
exact/norm bonds :
  2-28 4-50 32-34 32-35 38-39 38-40 41-42 43-45 43-46
exact bonds :
  19-20 19-21 20-21 38-42 43-44
normalized bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
  containing 1 : 19 :

```

G1:NO2, [\*1]

G2:[\*2], [\*3], [\*4]

G3:CN,NO2,O,S,N,Cl,Br,F,I

G4:O,S

G5:[\*5], [\*6], [\*7]

Match level :

```

  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 10:CLASS 11:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 28:CLASS 30:CLASS
31:Atom 32:CLASS 34:CLASS 35:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS
43:CLASS 44:CLASS 45:CLASS 46:CLASS 50:CLASS

```

Generic attributes :

22:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7

Element Count :  
Node 22: Limited  
C,C2-4

10/581,897

=> ....Testing the current file.... screen

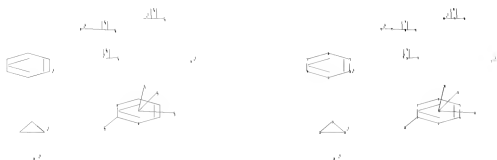
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897.str



```

chain nodes :
10 22 28 30 32 34 35 38 39 40 41 42 43 44 45 46 50
ring nodes :
1 2 3 4 5 6 13 14 15 16 17 18 19 20 21
ring/chain nodes :
7
chain bonds :

```

```

2-28 32-34 32-35 38-39 38-40 38-42 41-42 43-44 43-45 43-46
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 19-20
19-21 20-21
exact/norm bonds :
2-28 32-34 32-35 38-39 38-40 41-42 43-45 43-46
exact bonds :
19-20 19-21 20-21 38-42 43-44
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 19 :

```

G1:NO2, [\*1]

G2:[\*2],[\*3],[\*4]

G3:CN,NO2,O,S,N,Cl,Br,F,I

G4:O,S

G5:[\*5],[\*6],[\*7]

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 10:CLASS 11:Atom 13:Atom
14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS
28:CLASS 30:CLASS 31:Atom 32:CLASS 34:CLASS 35:CLASS 38:CLASS 39:CLASS
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 50:CLASS
51:Atom
Generic attributes :
22:
Saturation          : Saturated
Number of Carbon Atoms : less than 7

Element Count :
Node 22: Limited
C,C2-4

```

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d l3

L3 HAS NO ANSWERS

L1 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.  
 L3 QUE L2 NOT L1

=> s l3 sss sam

SAMPLE SEARCH INITIATED 18:31:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 73329 TO ITERATE

2.7% PROCESSED 2000 ITERATIONS 0 ANSWERS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1450447 TO 1482713  
 PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 NOT L1

=> ....Testing the current file.... screen

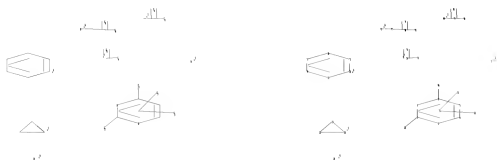
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L5 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (a).str



```

chain nodes :
10 22 28 30 32 34 35 38 39 40 41 42 43 44 45 46 50
ring nodes :
1 2 3 4 5 6 13 14 15 16 17 18 19 20 21
ring/chain nodes :
7
chain bonds :

```

```

2-28 4-50 32-34 32-35 38-39 38-40 38-42 41-42 43-44 43-45 43-46
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 19-20
19-21 20-21
exact/norm bonds :
2-28 4-50 32-34 32-35 38-39 38-40 41-42 43-45 43-46
exact bonds :
19-20 19-21 20-21 38-42 43-44
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 19 :

```

G1:NO2, [\*1]

G2:[\*2], [\*3], [\*4]

G3:CN,NO2,O,S,N,Cl,Br,F,I

G4:O,S

G5:[\*5], [\*6], [\*7]

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 10:CLASS 11:Atom 13:Atom
14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS
28:CLASS 30:CLASS 31:Atom 32:CLASS 34:CLASS 35:CLASS 38:CLASS 39:CLASS
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 50:CLASS
Generic attributes :
22:
Saturation          : Saturated
Number of Carbon Atoms : less than 7

Element Count :
Node 22: Limited
C,C2-4

```

L6 STRUCTURE UPLOADED

=> que L6 NOT L5

L7 QUE L6 NOT L5

=> d l7

L7 HAS NO ANSWERS

L5 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L6 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.



L7

QUE L6 NOT L5

=&gt; s l7 sss sam

SAMPLE SEARCH INITIATED 18:33:42 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 23429 TO ITERATE

8.5% PROCESSED 2000 ITERATIONS

2 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 459417 TO 477743

PROJECTED ANSWERS: 178 TO 758

L8

2 SEA SSS SAM L6 NOT L5

=&gt; =&gt; s l7 sss ful

FULL SEARCH INITIATED 18:34:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 472135 TO ITERATE

100.0% PROCESSED 472135 ITERATIONS

654 ANSWERS

SEARCH TIME: 00.00.08

L9

654 SEA SSS FUL L6 NOT L5

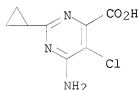
=&gt; =&gt; s l9

L10 14 L9

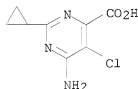
=&gt; d l10 1-14 bib,ab,hitstr

L10 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2008:1480203 CAPLUS  
 DN 150:49537  
 TI Plant genes for cytochromes P 450 conferring resistance to hydroxyphenyl  
 pyruvate dioxxygenase-inhibiting herbicides  
 IN Hawkes, Timothy Robert; Vernooij, Bernardus Theodorus Maria  
 PA Syngenta Participations AG, Switz.  
 SO PCT Int. Appl., 79pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| PI WO 2008150473  | A2   | 20081211 | WO 2008-US6891  | 20080530 |
| W: AE, AG, AL, AM, AS, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,<br>CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,<br>FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,<br>KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,<br>ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,<br>PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,<br>TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW<br>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,<br>IE, IS, IT, LI, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,<br>TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,<br>TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,<br>AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>US 20090011936 A1 20090108 US 2008-156247 20080530<br>PRAI US 2007-932560P P 20070530<br>OS MARPAT 150:49537<br>AB Plant genes for cytochromes P 450 that are capable of using<br>p-hydroxyphenyl pyruvate dioxxygenase (HPPD)-inhibiting herbicides as<br>substrates are described for use in improving crop plant resistance to<br>these herbicides. HPPD inhibitors including, benzothiadiazinones,<br>sulfonylureas, and other classes of herbicides may be metabolized by these<br>enzymes. Maize genes conferring cross-resistance to mesotrione and<br>nicosulfuron were mapped and cloned and shown to encoded by the nsfl gene.<br>IT 858956-08-8<br>RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)<br>(plant resistance to; plant genes for cytochromes P 450 conferring<br>resistance to HPPD-inhibiting herbicides)<br>RN 858956-08-8 CAPLUS<br>CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX<br>NAME) |      |          |                 |          |



L10 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2008:1474221 CAPLUS  
 DN 150:49397  
 TI Mass spectrometric assessment and analytical methods for quantitation of the new herbicide aminocyclopyrachlor and its methyl analogue in soil and water  
 AU Nanita, Sergio C.; Pentz, Anne M.; Grant, Joann; Vogl, Emily; Devine, Timothy J.; Henze, Robert M.  
 CS Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19714, USA  
 SO Analytical Chemistry (Washington, DC, United States) (2009), 81(2), 797-808  
 CODEN: ANCHAM; ISSN: 0003-2700  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Anal. methods have been developed for the detection and quantitation of aminocyclopyrachlor and its analog aminocyclopyrachlor Me in environmental samples. The analytes were purified from soil exts. and water samples using solid phase extraction based on mixed-mode cation exchange/reverse phase retention. Analyte identification and quant. analyses were performed by HPLC coupled to tandem mass spectrometry by an electrospray ionization source. External stds. prepared in neat solvents were used for quantitation, providing acceptable accuracy, with no matrix effects observed during method validation. The method limits of quantitation (LOQ) were 0.10 ng/mL (ppb) in water and 1.0 ng/g in soil for both compds. The limit of detection (LOD) in water was 20 ng/L (ppt) for aminocyclopyrachlor and 1 ng/L for aminocyclopyrachlor Me, while LODs in soil were 100 ng/kg and 10 ng/kg for aminocyclopyrachlor and aminocyclopyrachlor Me, resp. The stability of both compds. in various solvents was evaluated as part of method development. Tandem mass spectrometry expts. were also conducted to investigate the gas-phase fragmentation of aminocyclopyrachlor and its Me analog, and the results are reported. A statistical anal. of method validation data generated at two labs. by multiple chemists authenticates the ruggedness and good reproducibility of the anal. procedures tested.  
 IT 858956-08-8, Aminocyclopyrachlor  
 RL: ANT (Analyte); ANST (Analytical study)  
 (mass spectrometric assessment and anal. methods for quantitation of new herbicide aminocyclopyrachlor and its Me analog in soil and water)  
 RN 858956-08-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

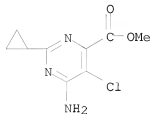


IT 858954-83-3, Aminocyclopyrachlor methyl  
 RL: ANT (Analyte); ANST (Analytical study)  
 (mass spectrometric determination of aminocyclopyrachlor and its Me analog in soil and water)

10/581,897

RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)



RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2008:734540 CAPLUS  
 DN 149:47019  
 TI Herbicidal mixtures comprising pyrimidinecarboxylates and  
 dihydroisoxazoles  
 IN Armel, Gregory R. Hong, Wonpyo  
 PA E. I. Du Pont De Nemours and Company, USA  
 SO PCT Int. Appl., 36pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

common inventor

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| PI WO 2008073369  | A1   | 20080619 | WO 2007-US25224 | 20071210 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,<br>CH, CN, CO, CR, CU, CS, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,<br>GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,<br>KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,<br>MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,<br>PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,<br>TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW<br>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,<br>IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,<br>BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,<br>GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,<br>BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |

FRAI US 2006-874359P P 20061212

no pending US Application

OS MARPAT 149:47019

AB A herbicidal mixture comprises (a)  $\geq 1$  herbicidal pyrimidine I (R1 = cyclopropyl, 4-bromophenyl, 4-chlorophenyl; X = Cl, Br; R2 = H, C1-14 alkyl, C2-14 alkoxyalkyl, C3-14 alkoxyalkoxyalkyl, C2-14 hydroxyalkyl, benzyl) or N-oxide or salt thereof and (b)  $\geq 1$  herbicidal compound the formula II (R3 = H, halo, C1-6 alkyl, C2-6 alkoxyalkyl, etc.; R4 = H, halo, C1-6 alkyl, haloalkyl, etc.; W = O, NR5; R5 = H, halo, CN, etc.; G = Ph or heteroaryl, optionally substituted) or N-oxide or salt thereof. The growth of undesired vegetation is controlled by contacting the vegetation or its environment with a herbicidally effective amount of a composition comprising a mixture of the invention and optionally further comprising  $\geq 1$  other herbicide. Thus, I (R1 = cyclopropyl, R2 = Me, X = Cl) + pyrooxasulfone at 50 + 12.5 g/ha completely controlled velvetleaf (Abutilon theophrasti) and redroot pigweed (Amaranthus retroflexus), with no effect on corn in a greenhouse trial. The observed effect for both weeds was greater than the expected effect.

IT 858954-76-4D, mixts. containing 858954-77-5D, mixts. containing 858954-79-7D, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing 858954-83-3D, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing 858955-31-4D, mixts. containing 858955-37-0D, mixts. containing 858955-38-1D, mixts. containing 858955-48-3D, mixts. containing 858955-49-4D, mixts. containing 858955-50-7D, mixts. containing 858955-51-8D, mixts. containing 858955-67-6D, mixts. containing 858955-68-7D, mixts. containing 858955-69-8D, mixts. containing 858955-86-9D, mixts. containing 858956-08-8D, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing 858956-12-4D, mixts. containing 858956-14-6D, mixts. containing

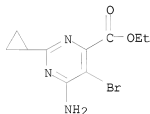
858956-15-7D, mixts. containing 858956-43-1D, mixts. containing  
 858956-44-2D, mixts. containing 858956-45-3D, mixts. containing  
 858956-46-4D, mixts. containing 945623-25-6D, mixts. containing  
 1032351-24-8 1032351-26-0 1032351-28-2  
 1032351-30-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)

(herbicidal mixts. comprising pyrimidinecarboxylates and  
 dihydroisoxazoles and optionally further herbicide)

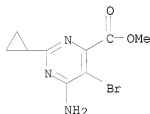
RN 858954-76-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



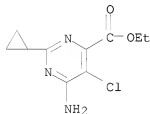
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



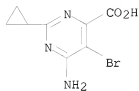
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)

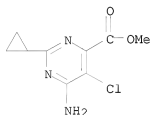


RN 858954-82-2 CAPLUS

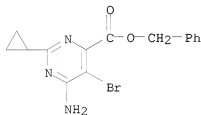
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX  
 NAME)



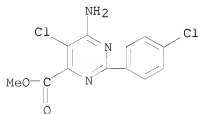
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)

RN 858954-96-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl  
ester (CA INDEX NAME)

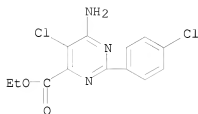
RN 858955-31-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl  
ester (CA INDEX NAME)

RN 858955-37-0 CAPLUS

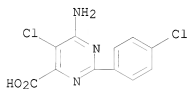
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl

ester (CA INDEX NAME)



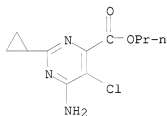
RN 858955-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



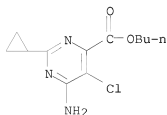
RN 858955-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



RN 858955-49-4 CAPLUS

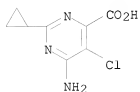
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)



RN 858955-50-7 CAPLUS



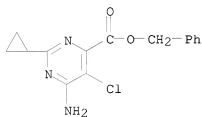
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)



● Na

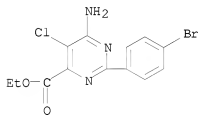
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



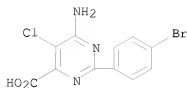
RN 858955-67-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



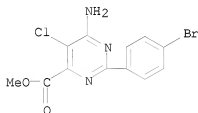
RN 858955-68-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA INDEX NAME)



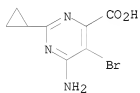
RN 858955-69-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



RN 858955-86-9 CAPLUS

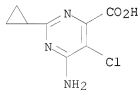
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

RN 858956-08-8 CAPLUS

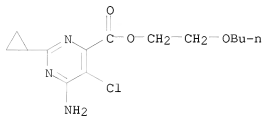
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



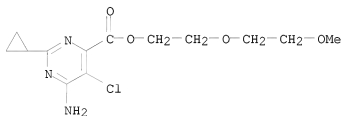
RN 858956-12-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,

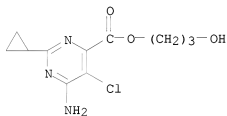
2-butoxyethyl ester (CA INDEX NAME)



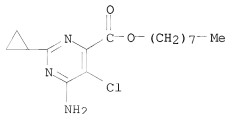
RN 858956-14-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)

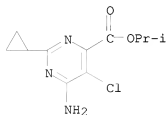
RN 858956-15-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)

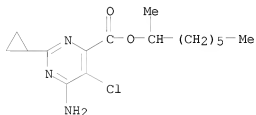
RN 858956-43-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)

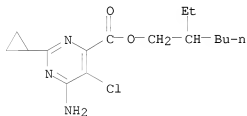
RN 858956-44-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)

RN 858956-45-3 CAPLUS

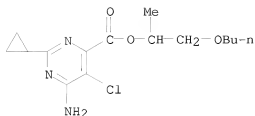
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)

RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
ester (CA INDEX NAME)

RN 945623-25-6 CAPLUS

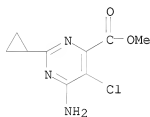
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxy-1-methylethyl ester (CA INDEX NAME)



RN 1032351-24-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

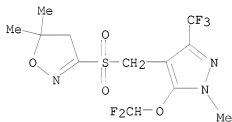
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 447399-55-5  
 CMF C12 H14 F5 N3 O4 S

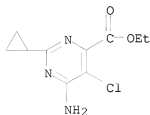


RN 1032351-26-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester, mixt. with 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

CM 1

CRN 858954-79-7

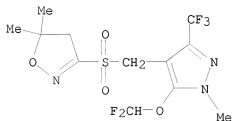
CMF C10 H12 Cl N3 O2



CM 2

CRN 447399-55-5

CMF C12 H14 F5 N3 O4 S



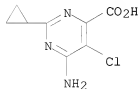
RN 1032351-28-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
 3-[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

CRN 447399-55-5



10/581,897



L10 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:530173 CAPLUS

DN 148:517742

TI Heteroaryl compounds, compositions thereof, preparation and use thereof as protein kinase inhibitors

IN Mortensen, Deborah Sue; Mederos, Maria Mercedes Delgado; Sapienza, John Joseph; Albers, Ronald J.; Lee, Branden G.; Huang, Dehua; Schwarz, Kimberly Lyn; Parnes, Jason Simon; Riggs, Jennifer R.; Papa, Patrick William

PA Signal Pharmaceuticals, LLC, USA

SO PCT Int. Appl., 244pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 2008051494   | A1   | 20080502 | WO 2007-US22375 | 20071018 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |      |          |                 |          |
|      | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  |      |          |                 |          |
|      | US 20090042890  | A1   | 20090212 | US 2007-975657  | 20071018 |
| PRAI | US 2006-853135P   | P    | 20061019 |                 |          |
| OS   | MARPAT 148:517742   |      |          |                 |          |

AB Provided herein are heteroaryl compds. having the following structure I, comprising an effective amount of a heteroaryl compound and methods for treating or preventing cancer, inflammatory conditions, immunol. conditions, metabolic conditions and conditions treatable or preventable by inhibition of a kinase pathway comprising administering an effective amount of a heteroaryl compound to a patient in need thereof. Compds. of formula I wherein X-A-B-Y taken together to form NR<sub>2</sub>CH<sub>2</sub>CONH, NR<sub>2</sub>COCH<sub>2</sub>NH, CR<sub>2</sub>CONH, NR<sub>2</sub>C=N, and CR<sub>2</sub>=CHNH; L is a bond, NH and O; R<sub>1</sub> and R<sub>2</sub> are independently (un)substituted C1-8 alkyl, (un)substituted (hetero)aryl and (un)substituted (hetero)cycloalkyl; R<sub>3</sub> and R<sub>4</sub> are independently H, C1-8 alkyl; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by cyclization of (Z)-1-(2-amino-1,2-dicyanovinyl)-3-(2-methoxyphenyl)urea with quinoline-5-carboxaldehyde. All the invention compds. were evaluated for their protein kinase inhibitory activity. From the assay, it was determined that compound II exhibited IC<sub>50</sub> values of 0.1-5  $\mu$ M against mTOR and 20.1-30  $\mu$ M against IKK-2.

IT 1022157-43-2P 1022157-47-6P 1022157-51-2P

1022157-66-9P 1022157-78-3P 1022157-87-4P

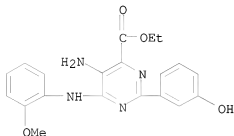
1022158-72-0P 1022158-89-9P 1022158-98-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heteroaryl compds. useful in treatment and prevention of diseases)

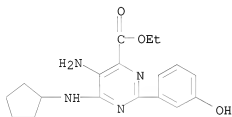
RN 1022157-43-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-2-(3-hydroxyphenyl)-6-[(2-methoxyphenyl)amino]-, ethyl ester (CA INDEX NAME)



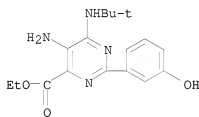
RN 1022157-47-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-6-(cyclopentylamino)-2-(3-hydroxyphenyl)-, ethyl ester (CA INDEX NAME)



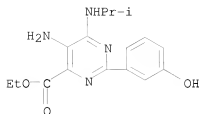
RN 1022157-51-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-6-[(1,1-dimethylethyl)amino]-2-(3-hydroxyphenyl)-, ethyl ester (CA INDEX NAME)



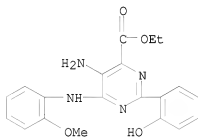
RN 1022157-66-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-2-(3-hydroxyphenyl)-6-[(1-methylethyl)amino]-, ethyl ester (CA INDEX NAME)



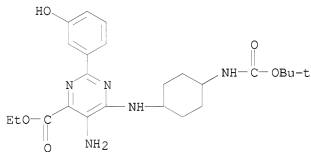
RN 1022157-78-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-2-((2-hydroxyphenyl)amino)-6-((2-methoxyphenyl)amino)-, ethyl ester (CA INDEX NAME)



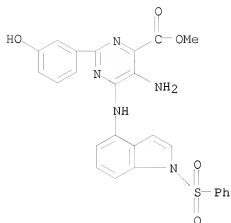
RN 1022157-87-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-6-[[4-[[[(1,1-dimethylethoxy)carbonyl]amino]cyclohexyl]amino]-2-(3-hydroxyphenyl)]-, ethyl ester (CA INDEX NAME)



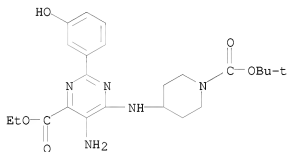
RN 1022158-72-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-2-(3-hydroxyphenyl)-6-[[1-(phenylsulfonyl)-1H-indol-4-yl]amino]-, methyl ester (CA INDEX NAME)



RN 1022158-89-9 CAPLUS

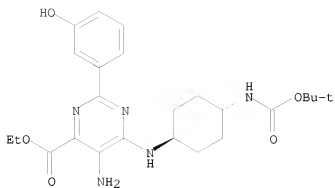
CN 4-Pyrimidinecarboxylic acid, 5-amino-6-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]amino]-2-(3-hydroxyphenyl)-, ethyl ester (CA INDEX NAME)



RN 1022158-98-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-6-[[trans-4-[[[(1,1-dimethylethoxy)carbonyl]amino]cyclohexyl]amino]-2-(3-hydroxyphenyl)-, ethyl ester (CA INDEX NAME)

Relative stereochemistry.



RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2009 ACS ON STN

AN 2007:1204062 CAPLUS

DN 147:463424

TI Herbicidal mixtures comprising pyrimidine derivatives

IN Armel, Gregory Russell; Casini, Mark S.; Cotterman, Josephine Cecilia; Hulse, Edna; Link, Michael L.; Rardon, Patrick L.; Saunders, David William; Strachan, Stephen D.

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 123pp.

CODEN: PIXXD2

common inventor

DT Patent

LA English

FAN.CNT 1

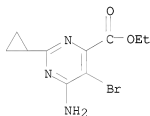
|      | PATENT NO.      | KIND   | DATE     | APPLICATION NO.           | DATE     |
|------|-----------------|--|----------|---------------------------|----------|
| PI   | WO 2007120706   | A2   | 20071025 | WO 2007-US8930            | 20070410 |
|      | WO 2007120706   | A3   | 20080529 |                           |          |
|      | W:              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |          |                           |          |
|      | RW:             | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA   |          |                           |          |
|      | AU 2007238732   | A1   | 20071025 | AU 2007-238732            | 20070410 |
|      | CA 2646143      | A1   | 20071025 | CA 2007-2646143           | 20070410 |
|      | EP 2003972      | A2   | 20081224 | EP 2007-755262            | 20070410 |
|      | R:              | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS   |          |                           |          |
|      | IN 2008DN07403  | A  | 20080926 | IN 2008-DN7403            | 20080829 |
| PRAI | US 2006-790659P | P  | 20060410 | no pending US application |          |
|      | US 2006-852139P | P  | 20061017 |                           |          |
|      | WO 2007-US8930  | W  | 20070410 |                           |          |

OS MARPAT 147:463424

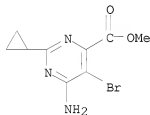
AB Disclosed is a herbicidal mixture comprising a pyrimidine derivative I (R1 = cyclopropyl, 4-bromophenyl or 4-chlorophenyl; X = Cl or Br; R2 = H, alkyl, alkoxyalkyl, alkoxyalkoxyalkyl, hydroxyalkyl or benzyl) or I N-oxides or salts, and at least one addnl. herbicide or herbicide safener selected from ACCase inhibitors, AHAS inhibitors, photosystem II inhibitors, photosystem I electron diverters, PPO inhibitors, EPSP synthase inhibitors, GS inhibitors, VLCFA inhibitors, auxin mimics, auxin transport inhibitors, and other herbicides selected from flumprop-M-Me, flumprop-M-iso-Pr, difenzoquat, DSMA, MSMA, bromobutide, flurenol, cinnethylin, cumyluron, dazomet, dymron, methylthymon, etobenzanid, fosamine-ammonium, isoxaflutole, asulam, clomazone, mesotrione, metam, oxaziclomefone, oleic acid, pelargonic acid and pyributicarb, as well as herbicide safeners selected from benoxacor, 1-bromo-4-[(chloromethyl)sulfonyl]benzene, cloquintocet-mexyl, cyometrinil, dichlormid, 2-(dichloromethyl)-2-methyl-1,3-dioxolane, fenchlorazole-Et, fencloir, flurazole, fluxofenim, furilazole, isoxadifen-Et, mefenpyr-diethyl, methoxyphenone, naphthalic anhydride and

oxabetrinil, and their salts.

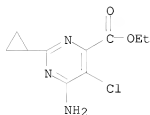
- IT 858954-76-4D, mixts. containing 858954-77-5D, mixts. containing  
 858954-79-7D, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-  
 pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing  
 858954-83-3D, Methyl 6-amino-5-chloro-2-cyclopropyl-4-  
 pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing  
 858955-31-4D, mixts. containing 858955-37-0D, mixts. containing  
 858955-38-1D, mixts. containing 858955-48-3D, mixts. containing  
 858955-49-4D, mixts. containing 858955-50-7D, mixts. containing  
 858955-51-8D, mixts. containing 858955-67-6D, mixts. containing  
 858955-68-7D, mixts. containing 858955-69-8D, mixts. containing  
 858955-86-9D, mixts. containing 858956-08-8D,  
 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing  
 858956-12-4D, mixts. containing 858956-14-6D, mixts. containing  
 858956-15-7D, mixts. containing 858956-43-1D, mixts. containing  
 858956-44-2D, mixts. containing 858956-45-3D, mixts. containing  
 858956-46-4D, mixts. containing 945623-25-6D, mixts. containing  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicide compns.)
- RN 858954-76-4 CAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



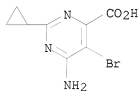
- RN 858954-77-5 CAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



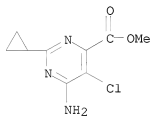
- RN 858954-79-7 CAPLUS
- CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



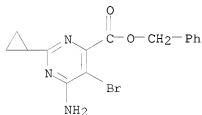
RN 858954-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

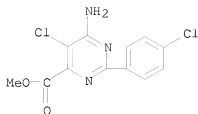


RN 858954-96-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)

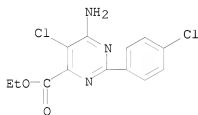


RN 858955-31-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)

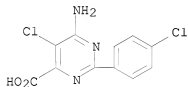




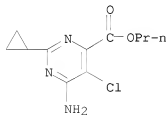
RN 858955-37-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



RN 858955-38-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)

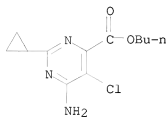


RN 858955-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



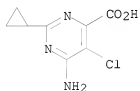
RN 858955-49-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester

(CA INDEX NAME)



RN 858955-50-7 CAPLUS

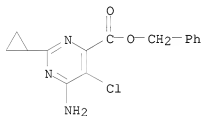
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

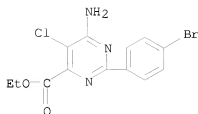
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



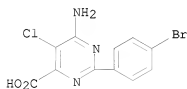
RN 858955-67-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



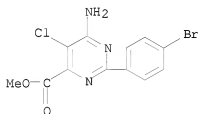
RN 858955-68-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA INDEX NAME)



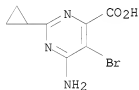
RN 858955-69-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



RN 858955-86-9 CAPLUS

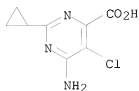
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

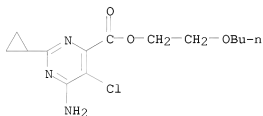
RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



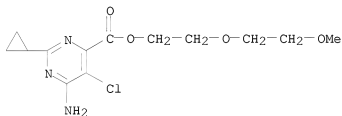
RN 858956-12-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



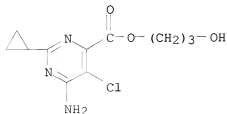
RN 858956-14-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)

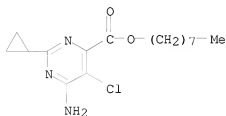


RN 858956-15-7 CAPLUS

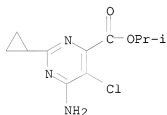
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 3-hydroxypropyl ester (CA INDEX NAME)



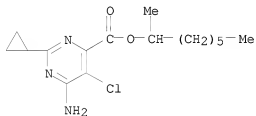
RN 858956-43-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
 (CA INDEX NAME)



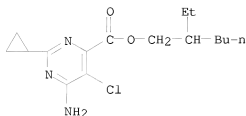
RN 858956-44-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylethyl ester (CA INDEX NAME)



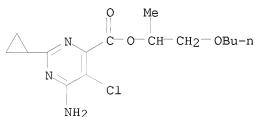
RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



RN 858956-46-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
 ester (CA INDEX NAME)



RN 945623-25-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-butoxy-1-methylethyl ester (CA INDEX NAME)

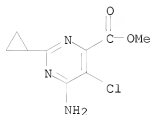


IT 952660-55-8 952660-56-9 952660-59-2  
 952660-60-5 952660-62-7 952660-63-8  
 952660-64-9 952660-65-0 952660-66-1  
 952660-67-2 952660-69-4 952660-70-7  
 952660-71-8 952660-72-9 952660-73-0  
 952660-74-1 952660-75-2 952660-76-3  
 952660-77-4 952660-78-5 952660-79-6  
 952660-80-9 952660-81-0 952660-82-1  
 952660-83-2 952660-84-3 952660-85-4  
 952660-86-5 952660-87-6 952660-88-7  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicidal mixture)

RN 952660-55-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl  
 ester, mixt. with 6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-  
 diamine (CA INDEX NAME)

CM 1

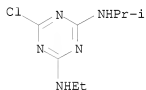
CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 1912-24-9

CMF C8 H14 Cl N5



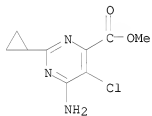
RN 952660-56-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]acetamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

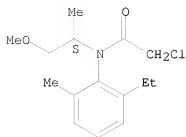


CM 2

CRN 87392-12-9

CMF C15 H22 Cl N O2

Absolute stereochemistry. Rotation (-).



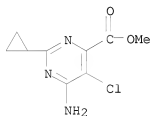
RN 952660-59-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with (2R)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

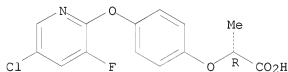


CM 2

CRN 114420-56-3

CMF C14 H11 Cl F N O4

Absolute stereochemistry.



RN 952660-60-5 CAPLUS

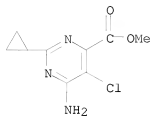
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3



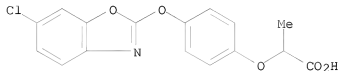
CMF C9 H10 Cl N3 O2



CM 2

CRN 95617-09-7

CMF C16 H12 Cl N O5



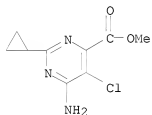
RN 952660-62-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester,  
 mixt. with methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate  
 (CA INDEX NAME)

CM 1

CRN 858954-83-3

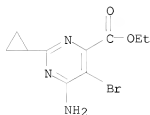
CMF C9 H10 Cl N3 O2



CM 2

CRN 858954-76-4

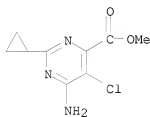
CMF C10 H12 Br N3 O2



RN 952660-63-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide (CA INDEX NAME)

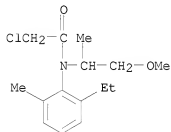
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

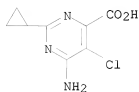
CRN 51218-45-2  
 CMF C15 H22 Cl N O2



RN 952660-64-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with 6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-diamine (CA INDEX NAME)

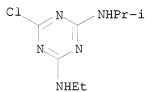
CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2



CM 2

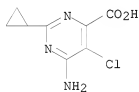
CRN 1912-24-9  
CMF C8 H14 Cl N5



RN 952660-65-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide  
(CA INDEX NAME)

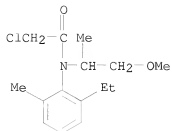
CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2



CM 2

CRN 51218-45-2  
CMF C15 H22 Cl N O2

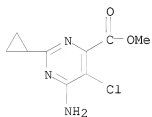


RN 952660-66-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

CM 1

CRN 858954-83-3

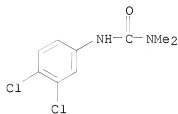
CMF C9 H10 Cl N3 O2



CM 2

CRN 330-54-1

CMF C9 H10 Cl2 N2 O

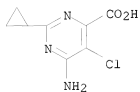


RN 952660-67-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

CM 1

CRN 858956-08-8

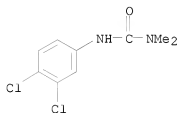
CMF C8 H8 C1 N3 O2



CM 2

CRN 330-54-1

CMF C9 H10 Cl2 N2 O



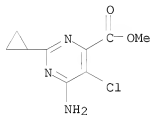
RN 952660-69-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N-[[[4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)-2-pyridinesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

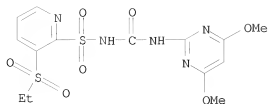
CMF C9 H10 Cl1 N3 O2



CM 2

CRN 122931-48-0

CMF C14 H17 N5 O7 S2

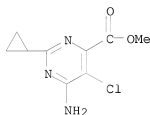


RN 952660-70-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene (CA INDEX NAME)

CM 1

CRN 858954-83-3

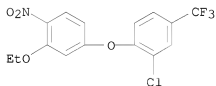
CMF C9 H10 Cl N3 O2



CM 2

CRN 42874-03-3

CMF C15 H11 Cl F3 N O4

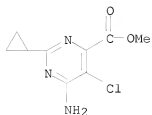


RN 952660-71-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1-chloro-N-[2-chloro-4-fluoro-5-[(6S,7aR)-6-fluorotetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl]phenyl]methanesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

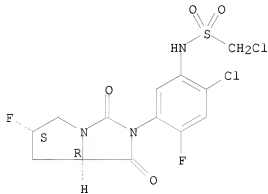


CM 2

CRN 190314-43-3

CMF C13 H11 Cl2 F2 N3 O4 S

Absolute stereochemistry.



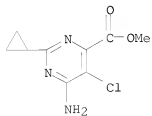
RN 952660-72-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl1 N3 O2





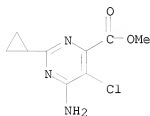


methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

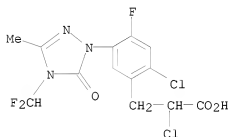
CMF C9 H10 Cl N3 O2



CM 2

CRN 128621-72-7

CMF C13 H10 Cl2 F3 N3 O3



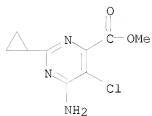
RN 952660-75-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

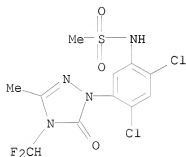
CMF C9 H10 Cl N3 O2



CM 2

CRN 122836-35-5

CMF C11 H10 Cl2 F2 N4 O3 S



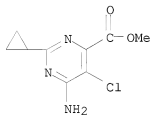
RN 952660-76-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[2,4-dichloro-5-(2-propyn-1-yloxy)phenyl]-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one (CA INDEX NAME)

CM 1

CRN 858954-83-3

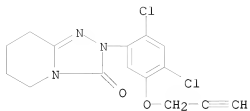
CMF C9 H10 Cl1 N3 O2



CM 2

CRN 68049-83-2

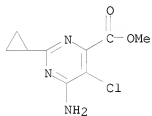
CMF C15 H13 Cl2 N3 O2



RN 952660-77-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(2,4-dichlorophenoxy)acetic acid (CA INDEX NAME)

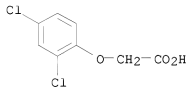
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

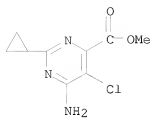
CRN 94-75-7  
 CMF C8 H6 Cl2 O3



RN 952660-78-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(4-chloro-2-methylphenoxy)acetic acid (CA INDEX NAME)

CM 1

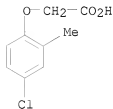
CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 94-74-6

CMF C9 H9 Cl1 O3



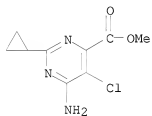
RN 952660-79-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

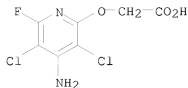
CMF C9 H10 Cl1 N3 O2



CM 2

CRN 69377-81-7

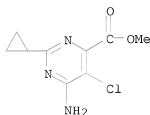
CMF C7 H5 Cl2 F N2 O3



RN 952660-80-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[1-[2-[[[(3,5-difluorophenyl)amino]carbonyl]hydrazinylidene]ethyl]-3-pyridinecarboxylic acid (CA INDEX NAME)

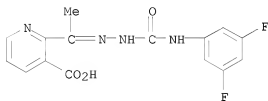
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

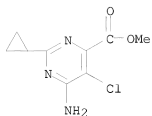
CRN 109293-97-2  
 CMF C15 H12 F2 N4 O3



RN 952660-81-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide (CA INDEX NAME)

CM 1

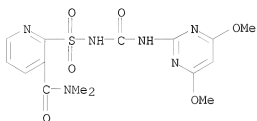
CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



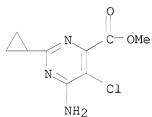
RN 952660-82-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

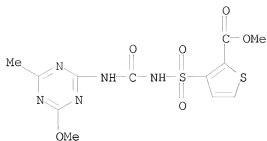
CMF C9 H10 Cl N3 O2



CM 2

CRN 79277-27-3

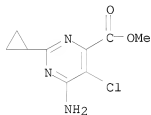
CMF C12 H13 N5 O6 S2



RN 952660-83-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate (CA INDEX NAME)

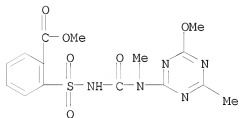
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

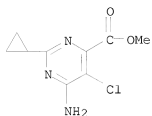
CRN 101200-48-0  
 CMF C15 H17 N5 O6 S



RN 952660-84-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

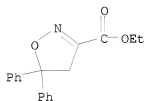
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

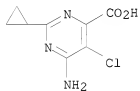
CRN 163520-33-0  
 CMF C18 H17 N O3



RN 952660-85-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (CA INDEX NAME)

CM 1

CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2



CM 2

CRN 81-84-5  
 CMF C12 H6 O3

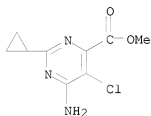




RN 952660-86-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (CA INDEX NAME)

CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

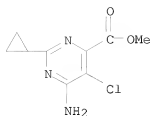
CRN 81-84-5  
 CMF C12 H6 O3



RN 952660-87-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-(formylamino)-N,N-dimethylbenzamide and ethyl 4,5-dihydro-5,5-diphenyl-3-isoazolecarboxylate (CA INDEX NAME)

CM 1

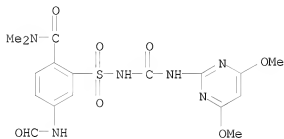
CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 173159-57-4

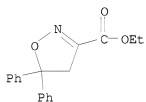
CMF C17 H20 N6 O7 S



CM 3

CRN 163520-33-0

CMF C18 H17 N O3



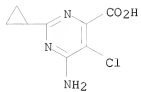
RN 952660-88-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858956-08-8

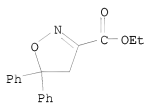
CMF C8 H8 Cl N3 O2



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



L10 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2009 ACS ON STN

AN 2007:906765 CAPLUS

DN 147:228744

TI Pyrimidinecarboxylate derivatives and related compounds as cotton defoliant

IN Bone, James; Rowe, Boston; Smith, J. Dan; Williams, Charles Steven

PA E. I. du Pont de Nemours and Company, USA

SO PCT Int. Appl., 50pp.

CODEN: PIXXD2

common assignee

DT Patent

LA English

FAN.CNT 1

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|----|--|------|----------|-----------------|----------|
| PI | WO 2007092184  | A2   | 20070816 | WO 2007-US2267  | 20070126 |
|    | WO 2007092184  | A3   | 20081231 |                 |          |
|    | W: AE, AG, AL, AM, AT, AU, <del>BA</del> , BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW<br>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA<br>AU 2007212702 A1 20070816 AU 2007-212702 20070126<br>PRAI US 2006-764539P P 20060202 no pending US application<br>US 2006-765542P P 20060206<br>WO 2007-US2267 W 20070126<br>OS MARPAT 147:228744 |      |          |                 |          |

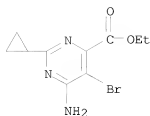
AB Pyrimidinecarboxylate derivs. and related compds. I [R1 = (un)substituted (cyclo)alkyl, alkenyl, etc.; R2 = CO2H, alkoxycarbonyl, etc.; R3 = halo, (thio)cyano, nitro, alkyl, etc.; W = H, NH2, NO2 N3, etc.; X = N or (un)substituted CH] inhibit the regrowth of foliage of cotton conditioned for harvest or after harvest. I can be used as a mixture with known defoliant or desiccants.

IT 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate 858954-82-2  
 858954-83-3, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate 858954-96-8 858955-31-4  
 858955-37-0 858955-38-1 858955-48-3  
 858955-49-4 858955-50-7 858955-51-8  
 858955-67-6 858955-68-7 858955-69-8  
 858955-86-9 858956-08-8 858956-12-4  
 858956-14-6 858956-15-7 858956-43-1  
 858956-44-2 858956-45-3 858956-46-4  
 945623-25-6

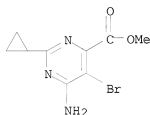
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (cotton defoliant)

RN 858954-76-4 CAPLUS

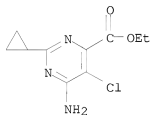
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



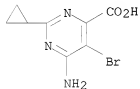
RN 858954-77-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



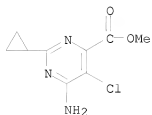
RN 858954-79-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



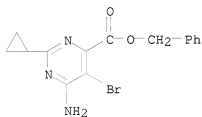
RN 858954-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



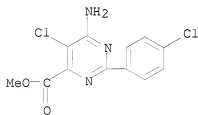
RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



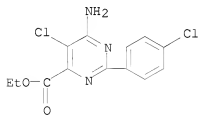
RN 858954-96-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



RN 858955-31-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)

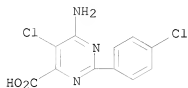


RN 858955-37-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



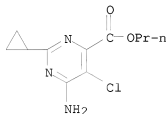
RN 858955-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



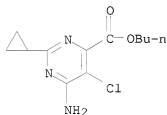
RN 858955-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



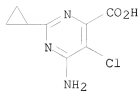
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)



RN 858955-50-7 CAPLUS

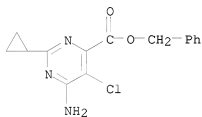
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

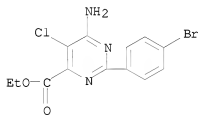
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



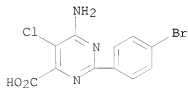
RN 858955-67-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



RN 858955-68-7 CAPLUS

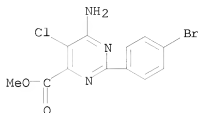
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA INDEX NAME)





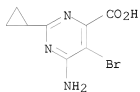
RN 858955-69-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



RN 858955-86-9 CAPLUS

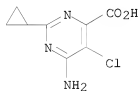
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)



● Na

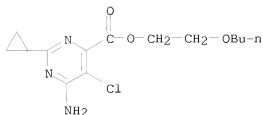
RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

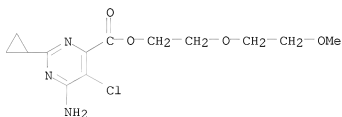


RN 858956-12-4 CAPLUS

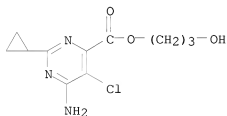
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



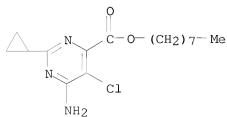
RN 858956-14-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)

RN 858956-15-7 CAPLUS

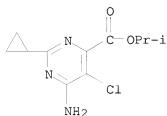
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)

RN 858956-43-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)

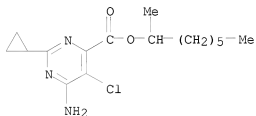
RN 858956-44-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



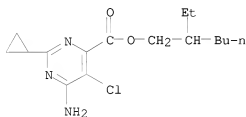
RN 858956-45-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)



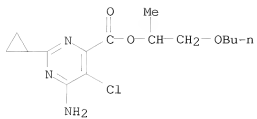
RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
ester (CA INDEX NAME)



RN 945623-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxy-1-methylethyl ester (CA INDEX NAME)



L10 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2009 ACS ON STN

AN 2007:789888 CAPLUS

DN 147:189192

TI Preparation of 2-(polysubstituted aryl)-6-amino-5-halo-4-pyrimidinecarboxylic acids as herbicides.

IN Epp, Jeffrey Brian; Schmitzer, Paul Richard; Ruiz, James Melvin; Balko, Terry William; Siddall, Thomas Lyman; Yerkes, Carla Nanette

PA Dow Agrosciences LLC, USA

SO PCT Int. Appl., 68pp.

CODEN: PIXXD2

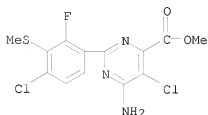
DT Patent

LA English

FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|---|------|----------|------------------|----------|
| PI WO 2007082076  | A1   | 20070719 | WO 2007-US916    | 20070112 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW   |      |          |                  |          |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  |      |          |                  |          |
| AU 2007204887   | A1   | 20070719 | AU 2007-204887   | 20070112 |
| CA 2626018  | A1   | 20070719 | CA 2007-2626018  | 20070112 |
| US 20070179059  | A1   | 20070802 | US 2007-653021   | 20070112 |
| US 7300907  | B2   | 20071127 |                  |          |
| EP 1971579  | A1   | 20080924 | EP 2007-709791   | 20070112 |
| R: DE, FR, GB, IT   |      |          |                  |          |
| US 20080091016  | A1   | 20080417 | US 2007-973543   | 20071009 |
| MX 2008006617   | A    | 20080603 | MX 2008-6617     | 20080522 |
| CN 101360719  | A    | 20090204 | CN 2007-80001670 | 20080620 |
| PRAI US 2006-758671P  | P    | 20060113 |                  |          |
| US 2007-653021  | A1   | 20070112 |                  |          |
| WO 2007-US916   | W    | 20070112 |                  |          |
| OS MARPAT 147:189192  |      |          |                  |          |
| AB Title compds. [I; Q = halo; R1, R2 = H, alkyl, alkenyl, alkynyl, OH, alkoxy, amino, acyl, carboalkoxy, alkylcarbonyl, alkylsulfonyl, trialkylsilyl, dialkylphosphonyl; NR1R2 = 5- or 6-membered saturated ring; Ar = polysubstituted aryl; and agrochem. acceptable derivs. thereof], were prepared. Thus, Me 5-chloro-2-(4-chloro-3-ethoxy-2-fluorophenyl)-6-methanesulfonylpyrimidine-4-carboxylate (preparation given) was stirred 3 h with NH3 in dioxane/MeOH to give 54% Me 6-amino-5-chloro-2-(4-chloro-3-ethoxy-2-fluorophenyl)pyrimidine-4-carboxylate. The latter at 140 g/ha post-emergent gave 100% control of Chenopodium album, Abutilon theophrasti, and Helianthus annuus. |      |          |                  |          |
| IT 944128-68-1P   |      |          |                  |          |
| RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)   |      |          |                  |          |
| (preparation of arylaminohalopyrimidinecarboxylic acids as herbicides)  |      |          |                  |          |
| RN 944128-68-1 CAPLUS   |      |          |                  |          |

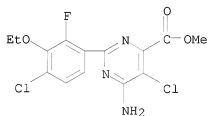
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-2-fluoro-3-(methylthio)phenyl]-, methyl ester (CA INDEX NAME)



IT 944128-65-8P 944128-66-9P 944128-67-0P  
 944128-69-2P 944128-70-5P 944128-71-6P  
 944128-72-7P 944128-73-8P 944128-74-9P  
 944128-75-0P 944128-76-1P 944128-77-2P  
 944128-78-3P 944128-79-4P 944128-80-7P  
 944128-81-8P 944128-82-9P 944128-83-0P  
 944128-84-1P 944128-85-2P 944128-86-3P  
 944128-87-4P 944128-88-5P 944128-89-6P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of arylaminohalopyrimidinecarboxylic acids as herbicides)

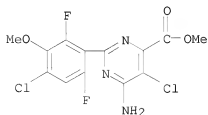
RN 944128-65-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-3-ethoxy-2-fluorophenyl)-, methyl ester (CA INDEX NAME)



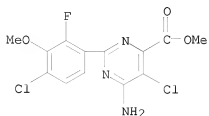
RN 944128-66-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2,6-difluoro-3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



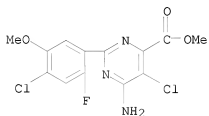
RN 944128-67-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluoro-3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



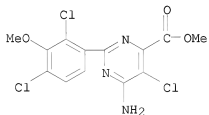
RN 944128-69-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluoro-5-methoxyphenyl)-, methyl ester (CA INDEX NAME)



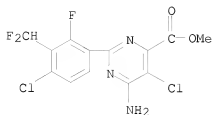
RN 944128-70-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichloro-3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



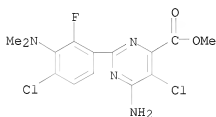
RN 944128-71-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-3-(difluoromethyl)-2-fluorophenyl]-, methyl ester (CA INDEX NAME)



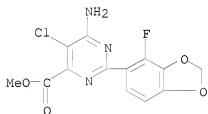
RN 944128-72-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-3-(dimethylamino)-2-fluorophenyl]-, methyl ester (CA INDEX NAME)



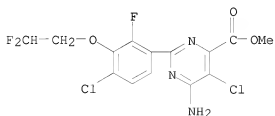
RN 944128-73-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluoro-1,3-benzodioxol-5-yl)-, methyl ester (CA INDEX NAME)



RN 944128-74-9 CAPLUS

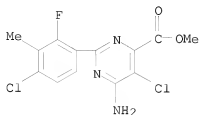
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-3-(2,2-difluoroethoxy)-2-fluorophenyl]-, methyl ester (CA INDEX NAME)



RN 944128-75-0 CAPLUS

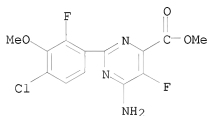


CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluoro-3-methylphenyl)-, methyl ester (CA INDEX NAME)



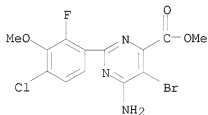
RN 944128-76-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chloro-2-fluoro-3-methoxyphenyl)-5-fluoro-, methyl ester (CA INDEX NAME)



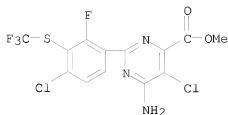
RN 944128-77-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chloro-2-fluoro-3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



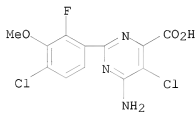
RN 944128-78-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-2-fluoro-3-(trifluoromethyl)thio]phenyl]-, methyl ester (CA INDEX NAME)



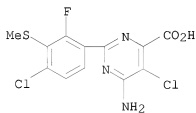
RN 944128-79-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluoro-3-methoxyphenyl)- (CA INDEX NAME)



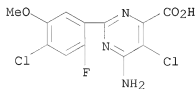
RN 944128-80-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-2-fluoro-3-(methylthio)phenyl]- (CA INDEX NAME)



RN 944128-81-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluoro-5-methoxyphenyl)- (CA INDEX NAME)



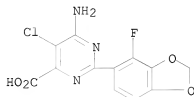
RN 944128-82-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichloro-3-methoxyphenyl)- (CA INDEX NAME)



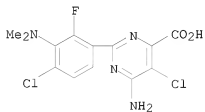
RN 944128-86-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluoro-1,3-benzodioxol-5-yl)- (CA INDEX NAME)



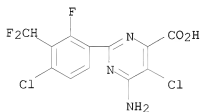
RN 944128-87-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-3-(dimethylamino)-2-fluorophenyl]- (CA INDEX NAME)



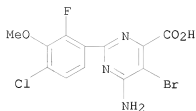
RN 944128-88-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-3-(difluoromethyl)-2-fluorophenyl]- (CA INDEX NAME)

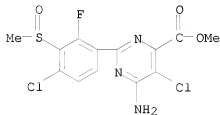


RN 944128-89-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chloro-2-fluoro-3-methoxyphenyl)- (CA INDEX NAME)



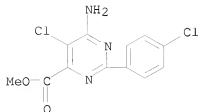
IT 944129-06-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of arylaminohalopyrimidinecarboxylic acids as herbicides)  
 RN 944129-06-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-chloro-2-fluoro-3-  
 (methylsulfinyl)phenyl]-, methyl ester (CA INDEX NAME)



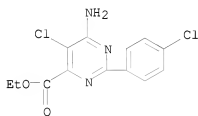
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2009 ACS ON STN  
 AN 2006:1226934 CAPLUS  
 DN 146:7979  
 TI Method for preparing substituted pyrimidines  
 IN Annis, Gary David  
 PA E. I. Du Pont De Nemours and Company, USA  
 SO PCT Int. Appl., 26pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

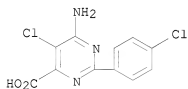
| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|---|------|----------|------------------|----------|
| PI WO 2006124657  | A1   | 20061123 | WO 2006-US18522  | 20060512 |
| W: AE, AG, AL, AM, AN, AO, AP, AR, AS, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW   |      |          |                  |          |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  |      |          |                  |          |
| AU 2006247581   | A1   | 20061123 | AU 2006-247581   | 20060512 |
| EP 1888536  | A1   | 20080220 | EP 2006-759727   | 20060512 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR   |      |          |                  |          |
| JP 2008540655   | T    | 20081120 | JP 2008-512374   | 20060512 |
| IN 2007DN08216  | A    | 20071123 | IN 2007-DN8216   | 20071024 |
| CN 101175730  | A    | 20080507 | CN 2006-80016942 | 20071116 |
| KR 2008016640   | A    | 20080221 | KR 2007-729280   | 20071214 |
| PRAI US 2005-681298P  | P    | 20050516 |                  |          |
| WO 2006-US18522   | W    | 20060512 |                  |          |
| OS CASREACT 146:7979; MARPAT 146:7979   |      |          |                  |          |
| AB The invention relates to a method for preparing a ester I [R1 = cyclopropyl, 4-chlorophenyl or 4-bromophenyl; R2 = alkyl] comprising contacting acetal II with a persulfate oxidant in the presence of a strong sulfur- or phosphorus-containing mineral acid such as sulfuric acid and an oxidation resistant solvent. Thus, reacting 5-chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine with ammonium persulfate in the presence of sulfuric acid in acetonitrile afforded 5% Et 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate. |      |          |                  |          |
| IT 858955-31-4 858955-37-0 858955-38-1 858955-48-3 858955-49-4 858955-67-6 858955-68-7 858955-69-8 858955-75-6 858955-78-9 858956-08-8 858956-43-1 858956-44-2 858956-45-3 858956-46-4 1042145-25-4   |      |          |                  |          |
| RL: PRPH (Prophetic)  |      |          |                  |          |
| (Method for preparing substituted pyrimidines)  |      |          |                  |          |
| RN 858955-31-4 CAPLUS   |      |          |                  |          |
| CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)  |      |          |                  |          |



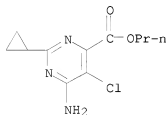
RN 858955-37-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



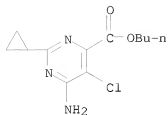
RN 858955-38-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



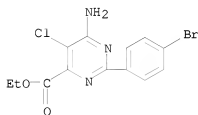
RN 858955-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



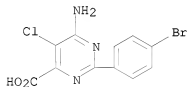
RN 858955-49-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)



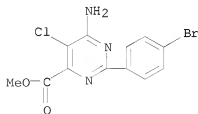
RN 858955-67-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



RN 858955-68-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA INDEX NAME)



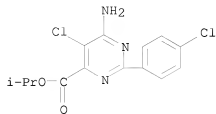
RN 858955-69-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



RN 858955-75-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,

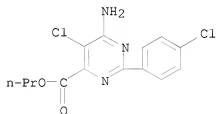


1-methylethyl ester (CA INDEX NAME)



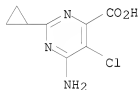
RN 858955-78-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, propyl ester (CA INDEX NAME)



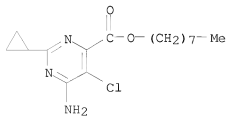
RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



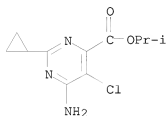
RN 858956-43-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester (CA INDEX NAME)



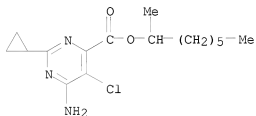
RN 858956-44-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



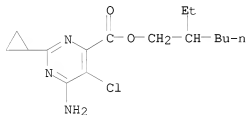
RN 858956-45-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)



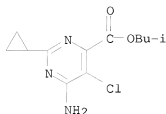
RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
ester (CA INDEX NAME)

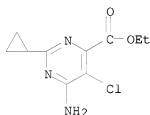


RN 1042145-25-4 CAPLUS

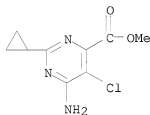
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-methylpropyl ester (CA INDEX NAME)



IT 858954-79-7P, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate 858954-83-3P, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (method for preparing substituted pyrimidines)  
 RN 858954-79-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2009 ACS ON STN  
 AN 2006:1201993 CAPLUS  
 DN 145:505468  
 TI Process for preparation of optionally 2-substituted  
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts and  
 carboximidamides  
 IN Shapiro, Rafael  
 PA E. I. Du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 36pp.  
 CODEN: PIXXD2 common assignee  
 DT Patent  
 LA English  
 FAN.CNT 1

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| PI WO 2006121648   | A2   | 20061116 | WO 2006-US16340 | 20060428 |
| WO 2006121648  | A3   | 20061228 |                 |          |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,<br>CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,<br>GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,<br>KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,<br>MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,<br>SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,<br>VN, YU, ZA, ZM, ZW<br>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,<br>IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,<br>CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,<br>GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,<br>KG, KZ, MD, RU, TJ, TM<br>AU 2006246374 A1 20061116 AU 2006-246374 20060428<br>CA 2607934 A1 20061116 CA 2006-2607934 20060428<br>EP 1877384 A2 20080116 EP 2006-751830 20060428<br>R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,<br>IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,<br>BA, HR, MK, YU<br>JP 2008540414 T 20081120 JP 2008-510079 20060428<br>US 20090043098 A1 20090212 US 2007-886605 20070917<br>IN 2007DN08215 A 20071123 IN 2007-DN8215 20071024<br>MX 2007013424 A 20080116 MX 2007-13424 20071026<br>KR 2008006576 A 20080116 KR 2007-725602 20071105<br>CN 101171237 A 20080430 CN 2006-80015454 20071106<br>PRAI US 2005-678264P F 20050506<br>WO 2006-US16340 W 20060428 |      |          |                 |          |

OS CASREACT 145:505468; MARPAT 145:505468

AB Title compds. [I; R1 = H, (substituted) carbon moiety], were prepared by contacting R2O2C(MO)C:CHCO2R3 (M = alkali metal; R2, R3 = alkyl) with a base and water to provide MO2C(MO)C:CHCO2R3 (variables as above) in solution and contacting the latter with R1C(:NH)NH2 (R1 as above) in the presence of a second base to maintain pH 9-12, followed by addition of acid. Thus, a mixture of H2O/denatured EtOH was treated with di-Et oxalacetate Na salt over 10 min; aqueous NaOH was then added over 1 h followed by stirring for 30 min. Cyclopropanecarboximidamide hydrochloride (preparation given) in H2O and then aqueous NaOH were added over 1 h to pH 10.5-11.5. The solution was heated to 60° over 1 h followed by cooling to 45-50° and treatment with aqueous HCl to give 85% 2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid. The latter was converted to Me 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

no ODP  
all process claims

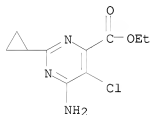
IT 858954-79-7 858955-16-5 858955-17-6  
 858955-31-4 858955-35-8 858955-37-0  
 858955-38-1 858955-44-9 858955-45-0  
 858955-46-1 858955-47-2 858955-48-3  
 858955-49-4 858955-51-8 858955-57-4  
 858955-59-6 858955-60-9 858955-63-2  
 858955-64-3 858955-67-6 858955-68-7  
 858955-69-8 858955-70-1 858955-71-2  
 858955-72-3 858955-73-4 858955-74-5  
 858955-75-6 858955-76-7 858955-77-8  
 858955-78-9 858955-79-0 858955-80-3  
 858955-81-4 858955-83-6 858955-91-6  
 858955-94-9 858955-95-0 858955-96-1  
 858956-00-0 858956-06-6 858956-12-4  
 858956-14-6 858956-15-7 858956-43-1  
 858956-44-2 858956-45-3 858956-46-4  
 859032-08-9 1042145-16-3 1042145-17-4  
 1042145-25-4 1042145-26-5 1042145-27-6  
 1042145-60-7 1042145-61-8 1042145-65-2  
 1042145-67-4 1042145-70-9 1042145-73-2  
 1042145-78-7 1042145-79-8 1042145-80-1  
 1042145-81-2 1042145-82-3 1042145-83-4  
 1042145-85-6 1042145-86-7 1042145-87-8  
 1042145-92-5 1042145-93-6 1042145-94-7  
 1042146-08-6 1042146-12-2 1042146-13-3  
 1042146-14-4 1042146-15-5 1042146-17-7

RL: PRPH (Prophetic)

(Process for preparation of optionally 2-substituted  
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts  
 and carboximidamides)

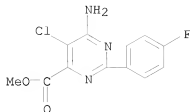
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



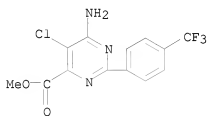
RN 858955-16-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)-, methyl  
 ester (CA INDEX NAME)



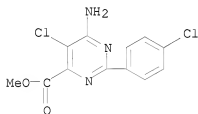
RN 858955-17-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]-, methyl ester (CA INDEX NAME)



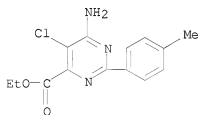
RN 858955-31-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)



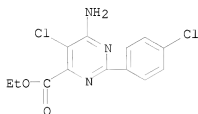
RN 858955-35-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)-, ethyl ester (CA INDEX NAME)



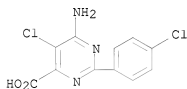
RN 858955-37-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



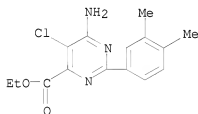
RN 858955-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



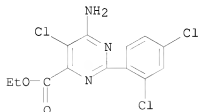
RN 858955-44-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dimethylphenyl)-, ethyl ester (CA INDEX NAME)



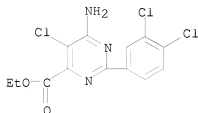
RN 858955-45-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichlorophenyl)-, ethyl ester (CA INDEX NAME)



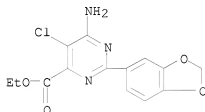
RN 858955-46-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dichlorophenyl)-, ethyl ester (CA INDEX NAME)



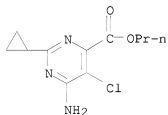
RN 858955-47-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(1,3-benzodioxol-5-yl)-5-chloro-, ethyl ester (CA INDEX NAME)



RN 858955-48-3 CAPLUS

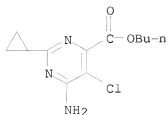
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



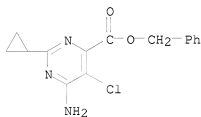
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)

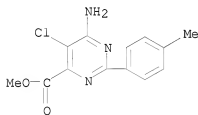




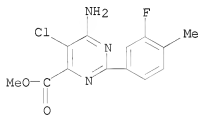
RN 858955-51-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



RN 858955-57-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)-, methyl ester (CA INDEX NAME)

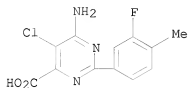


RN 858955-59-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-fluoro-4-methylphenyl)-, methyl ester (CA INDEX NAME)



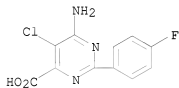
RN 858955-60-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-fluoro-4-methylphenyl)-  
(CA INDEX NAME)



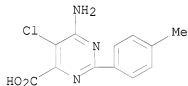
RN 858955-63-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)- (CA  
INDEX NAME)



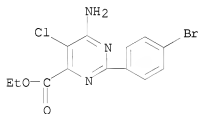
RN 858955-64-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)- (CA  
INDEX NAME)



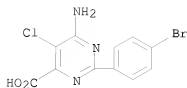
RN 858955-67-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl  
ester (CA INDEX NAME)



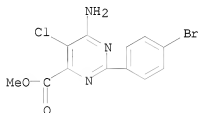
RN 858955-68-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA  
INDEX NAME)



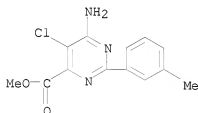
RN 858955-69-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



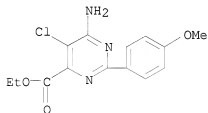
RN 858955-70-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methylphenyl)-, methyl ester (CA INDEX NAME)



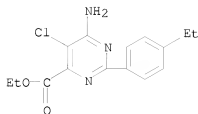
RN 858955-71-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methoxyphenyl)-, ethyl ester (CA INDEX NAME)



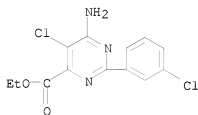
RN 858955-72-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-ethylphenyl)-, ethyl ester (CA INDEX NAME)



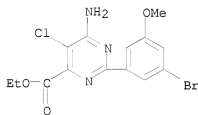
RN 858955-73-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-chlorophenyl)-, ethyl ester (CA INDEX NAME)



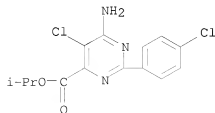
RN 858955-74-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(3-bromo-5-methoxyphenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



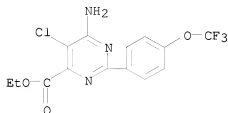
RN 858955-75-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, 1-methylethyl ester (CA INDEX NAME)



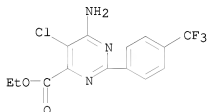
RN 858955-76-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



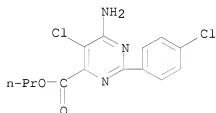
RN 858955-77-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



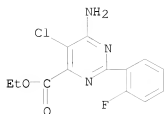
RN 858955-78-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, propyl ester (CA INDEX NAME)



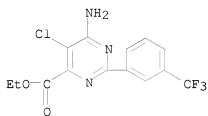
RN 858955-79-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorophenyl)-, ethyl ester (CA INDEX NAME)



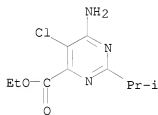
RN 858955-80-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



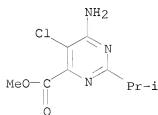
RN 858955-81-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



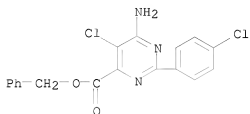
RN 858955-83-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)



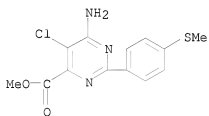
RN 858955-91-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, phenylmethyl ester (CA INDEX NAME)



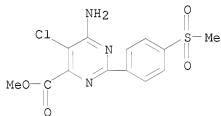
RN 858955-94-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylthio)phenyl]-, methyl ester (CA INDEX NAME)



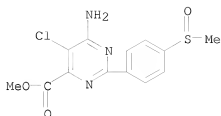
RN 858955-95-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfonyl)phenyl]-, methyl ester (CA INDEX NAME)

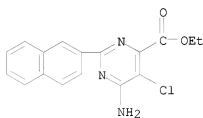


RN 858955-96-1 CAPLUS

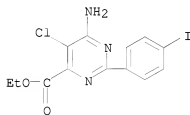
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfinyl)phenyl]-, methyl ester (CA INDEX NAME)



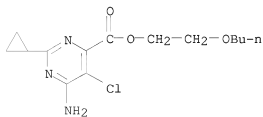
RN 858956-00-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-naphthalenyl)-, ethyl ester (CA INDEX NAME)



RN 858956-06-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



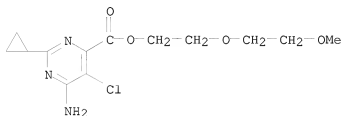
RN 858956-12-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



RN 858956-14-6 CAPLUS

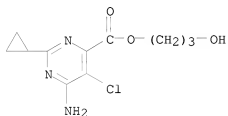


CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



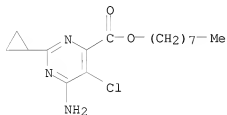
RN 858956-15-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)



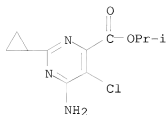
RN 858956-43-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)

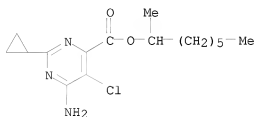


RN 858956-44-2 CAPLUS

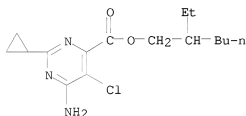
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



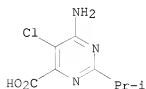
RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



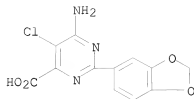
RN 858956-46-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
 ester (CA INDEX NAME)



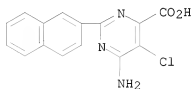
RN 859032-08-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)- (CA  
 INDEX NAME)



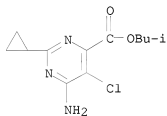
RN 1042145-16-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(1,3-benzodioxol-5-yl)-5-chloro-  
 (CA INDEX NAME)



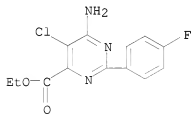
RN 1042145-17-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-naphthalenyl)- (CA INDEX NAME)



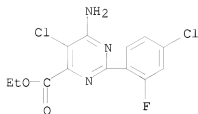
RN 1042145-25-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-methylpropyl ester (CA INDEX NAME)



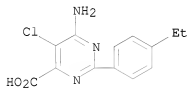
RN 1042145-26-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)-, ethyl ester (CA INDEX NAME)



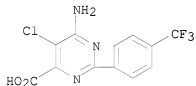
RN 1042145-27-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluorophenyl)-, ethyl ester (CA INDEX NAME)



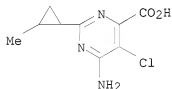
RN 1042145-60-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-ethylphenyl)- (CA INDEX NAME)



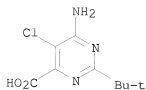
RN 1042145-61-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 1042145-65-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)- (CA INDEX NAME)

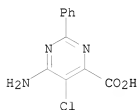


RN 1042145-67-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,1-dimethylethyl)- (CA INDEX NAME)



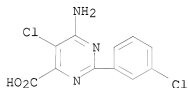
RN 1042145-70-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl- (CA INDEX NAME)



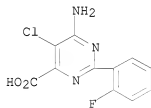
RN 1042145-73-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-chlorophenyl)- (CA INDEX NAME)



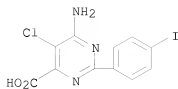
RN 1042145-78-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorophenyl)- (CA INDEX NAME)

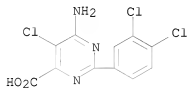


RN 1042145-79-8 CAPLUS

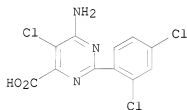
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)- (CA INDEX NAME)



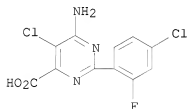
RN 1042145-80-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dichlorophenyl)- (CA INDEX NAME)



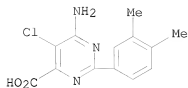
RN 1042145-81-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichlorophenyl)- (CA INDEX NAME)



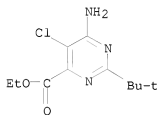
RN 1042145-82-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluorophenyl)- (CA INDEX NAME)



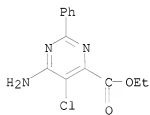
RN 1042145-83-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dimethylphenyl)- (CA INDEX NAME)



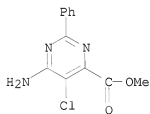
RN 1042145-85-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



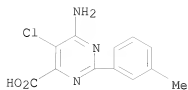
RN 1042145-86-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl-, ethyl ester (CA INDEX NAME)



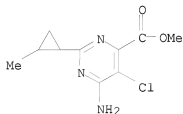
RN 1042145-87-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl-, methyl ester (CA INDEX NAME)



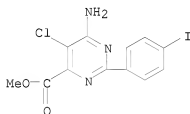
RN 1042145-92-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methylphenyl)- (CA INDEX NAME)



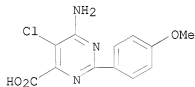
RN 1042145-93-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1042145-94-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)-, methyl ester (CA INDEX NAME)

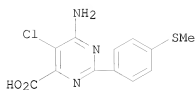


RN 1042146-08-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methoxyphenyl)- (CA INDEX NAME)



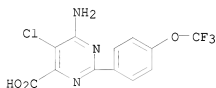
RN 1042146-12-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[(4-methylthio)phenyl]- (CA INDEX NAME)





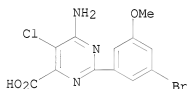
RN 1042146-13-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



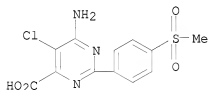
RN 1042146-14-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(3-bromo-5-methoxyphenyl)-5-chloro- (CA INDEX NAME)



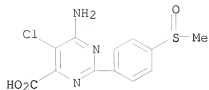
RN 1042146-15-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfonyl)phenyl]- (CA INDEX NAME)

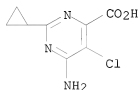


RN 1042146-17-7 CAPLUS

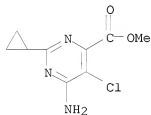
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfinyl)phenyl]- (CA INDEX NAME)



IT 858956-08-8P, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)  
 RN 858956-08-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



IT 858954-83-3P, Methyl 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)  
 RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:612265 CAPLUS  
 DN 143:133387  
 TI Preparation of herbicidal pyrimidines  
 IN Clark, David Alan; Finkelstein, Bruce Lawrence; Armel, Gregory Russell;  
 Wittenbach, Vernon Arie  
 PA E. I. Dupont de Nemours and Company, USA  
 SO PCT Int. Appl., 151 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

Applicant's

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---|------|----------|------------------|----------|
| PI   | WO 2005063721   | A1   | 20050714 | WO 2004-US42302  | 20041216 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                  |          |
|      | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
|      | AU 2004309325   | A1   | 20050714 | AU 2004-309325   | 20041216 |
|      | CA 2548058  | A1   | 20050714 | CA 2004-2548058  | 20041216 |
|      | EP 1694651  | A1   | 20060830 | EP 2004-814481   | 20041216 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS   |      |          |                  |          |
|      | CN 1894220  | A    | 20070110 | CN 2004-80037819 | 20041216 |
|      | BR 2004017279   | A    | 20070313 | BR 2004-17279    | 20041216 |
|      | JP 2007534649   | T    | 20071129 | JP 2006-545441   | 20041216 |
|      | IN 2006DN03045  | A    | 20070803 | IN 2006-DN3045   | 20060526 |
|      | US 20070197391  | A1   | 20070823 | US 2006-581897   | 20060605 |
|      | KR 2006114345   | A    | 20061106 | KR 2006-712063   | 20060616 |
|      | MX 2006007033   | A    | 20060831 | MX 2006-7033     | 20060619 |
| PRAI | US 2003-531300P   | P    | 20031219 |                  |          |
|      | US 2004-598397P   | P    | 20040803 |                  |          |
|      | WO 2004-US42302   | W    | 20041216 |                  |          |

OS CASREACT 143:133387; MARPAT 143:133387

AB The title compds. I [R1 = (un)substituted cyclopropyl, iso-Pr, or Ph; R2 = ((O)jC(R15)(R16))kR; R = CO2H or a herbicidally effective derivative of CO2H; R3 = halo, CN, NO2, OR20, SR21 or N(R22)R23; R4 = N(R24)R25 or NO2; j = 0-1; k = 0-1; provided that when k = 0, then j = 0; R15, R16 = H, halo, alkyl, etc.; R20, R21 = H, alkyl, haloalkyl; R22, R23 = H, alkyl; R24 = H, alkyl, alkenyl, etc.; R25 = H, alkyl, C(OR)R33; R33 = H, alkyl, haloalkyl, etc.; or R24 and R25 are taken together as a radical selected from (CH2)4, (CH2)5, etc.] which are useful for controlling undesired vegetation, were prepared E.g., a multi-step synthesis of Et 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (II) and Me 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (III), starting from Et 4,4-diethoxy-3-oxobutanoate and cyclopropanecarboximidamide monohydrochloride, was given. The compound II showed complete control against Pigweed at 500g ai/ha in postemergence test. Also disclosed are

comps. comprising the compds. I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound I. Also disclosed are comps. comprising a compound I and at least one addnl. active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

IT 859032-08-9 1042145-26-5 1042145-27-6  
 1042145-61-8 1042145-65-2 1042145-70-9  
 1042145-79-8 1042145-80-1 1042145-81-2  
 1042145-82-3 1042145-86-7 1042145-87-8  
 1042145-93-6 1042145-94-7 1042146-13-3  
 1045226-79-6 1045226-91-2 1045226-93-4  
 1045226-95-6 1045227-02-8 1045227-12-0  
 1045227-15-3 1045227-16-4 1045227-21-1  
 1045227-24-4 1045227-32-4 1045227-33-5  
 1045227-34-6 1045227-35-7 1045227-40-4  
 1045227-41-5 1045227-42-6 1045227-49-3  
 1045227-50-6 1045227-51-7 1045227-56-2  
 1045227-57-3 1045227-58-4 1045227-59-5  
 1045227-64-2 1045227-66-4 1045227-67-5  
 1045227-74-4 1045227-75-5 1045227-79-9  
 1045227-81-3 1045227-82-4 1045227-83-5  
 1045227-87-9 1045227-89-1 1045227-91-5  
 1045227-95-9 1045227-97-1 1045227-98-2  
 1045227-99-3 1045228-03-2 1045228-05-4  
 1045228-06-5 1045228-11-2 1045228-13-4  
 1045228-14-5 1045228-15-6 1045228-20-3  
 1045228-21-4 1045228-23-6 1045228-26-9  
 1045228-28-1 1045228-32-7 1045228-33-8  
 1045228-34-9 1045228-36-1 1045228-40-7  
 1045228-41-8 1045228-42-9 1045228-44-1  
 1045228-48-5 1045228-49-6 1045228-51-0  
 1045228-55-4 1045228-56-5 1045228-57-6  
 1045228-59-8 1045228-63-4 1045228-64-5  
 1045228-70-3 1045228-71-4 1045228-72-5  
 1045228-75-8 1045228-78-1 1045228-79-2  
 1045228-86-1 1045228-87-2 1045228-88-3  
 1045228-90-7 1045228-94-1 1045228-95-2  
 1045228-96-3 1045228-98-5 1045229-03-5  
 1045229-10-4 1045229-11-5 1045229-12-6  
 1045229-14-8 1045229-18-2 1045229-19-3  
 1045229-20-6 1045229-22-8 1045229-26-2  
 1045229-27-3 1045229-28-4 1045229-30-8  
 1045229-34-2 1045229-35-3 1045229-36-4  
 1045229-38-6 1045229-42-2 1045229-43-3  
 1045229-44-4 1045229-46-6 1045229-50-2  
 1045229-51-3 1045229-52-4 1045229-57-9  
 1045229-60-4 1045229-74-0 1045229-77-3  
 1045229-79-5 1045229-82-0 1045229-87-5  
 1045229-96-6 1045229-97-7 1045229-98-8  
 1045230-03-2 1045230-04-3 1045230-06-5  
 1045230-07-6 1045230-11-2 1045230-12-3  
 1045230-14-5 1045230-15-6 1045230-20-3  
 1045230-27-0 1045230-28-1 1045230-30-5  
 1045230-31-6 1045230-35-0 1045230-36-1  
 1045230-38-3 1045230-39-4 1045230-45-2  
 1045230-47-4 1045230-51-0 1045230-53-2  
 1045230-54-3 1045230-58-7 1045230-59-8

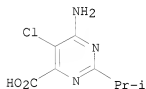
1045230-61-2 1045230-62-3 1045230-66-7  
 1045230-67-8 1045230-69-0 1045230-70-3  
 1045230-74-7 1045230-75-8 1045230-77-0  
 1045230-78-1 1045230-82-7 1045230-84-9  
 1045230-86-1 1045230-88-3 1045230-91-8  
 1045230-93-0 1045230-94-1 1045230-96-3  
 1045230-99-6 1045231-01-3 1045231-02-4  
 1045231-04-6 1045231-07-9 1045231-09-1  
 1045231-10-4 1045231-12-6 1045231-15-9  
 1045231-17-1 1045231-18-2 1045231-20-6  
 1045231-23-9 1045231-25-1 1045231-29-5  
 1045231-30-8 1045231-31-9 1045231-33-1  
 1045231-37-5 1045231-38-6 1045231-39-7  
 1045231-46-6 1045231-47-7 1045231-50-2  
 1045231-51-3 1045231-54-6 1045231-55-7  
 1045231-57-9 1045231-59-1 1045231-62-6  
 1045231-63-7 1045231-65-9 1045231-66-0  
 1045231-70-6 1045231-71-7 1045231-73-9  
 1045231-74-0 1045231-78-4 1045231-80-8  
 1045231-81-9 1045231-83-1 1045231-86-4  
 1045231-88-6 1045231-89-7 1045231-91-1  
 1045231-94-4 1045231-96-6 1045231-97-7  
 1045231-99-9 1045232-01-6 1045232-04-9  
 1045232-05-0 1045232-08-3 1045232-09-4  
 1045232-11-8 1045232-13-0 1045232-16-3  
 1045232-17-4 1045232-19-6 1045232-21-0  
 1045232-24-3 1045232-25-4 1045232-27-6  
 1045232-29-8 1045232-32-3

RL: PRPH (Prophetic)

(Preparation of herbicidal pyrimidines)

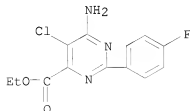
RN 859032-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)- (CA INDEX NAME)

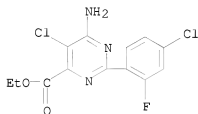


RN 1042145-26-5 CAPLUS

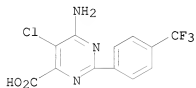
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)-, ethyl ester (CA INDEX NAME)



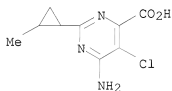
RN 1042145-27-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluorophenyl)-  
 , ethyl ester (CA INDEX NAME)



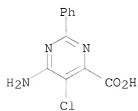
RN 1042145-61-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 1042145-65-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-  
 (CA INDEX NAME)

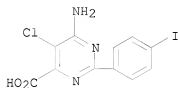


RN 1042145-70-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl- (CA INDEX NAME)

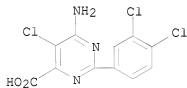


RN 1042145-79-8 CAPLUS

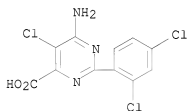
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)- (CA INDEX NAME)



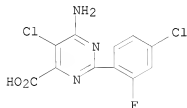
RN 1042145-80-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dichlorophenyl)- (CA INDEX NAME)



RN 1042145-81-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichlorophenyl)- (CA INDEX NAME)

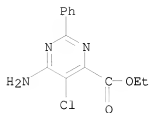


RN 1042145-82-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluorophenyl)- (CA INDEX NAME)



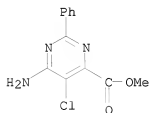
RN 1042145-86-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl-, ethyl ester (CA

INDEX NAME)



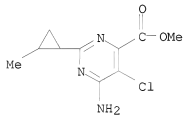
RN 1042145-87-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-phenyl-, methyl ester (CA INDEX NAME)



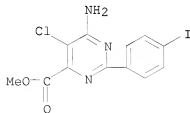
RN 1042145-93-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1042145-94-7 CAPLUS

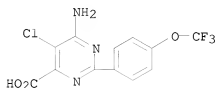
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)-, methyl ester (CA INDEX NAME)





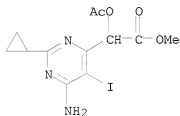
RN 1042146-13-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



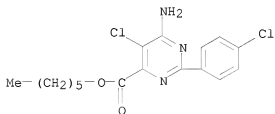
RN 1045226-79-6 CAPLUS

CN 4-Pyrimidineacetic acid, α-(acetyloxy)-6-amino-2-cyclopropyl-5-iodo-, methyl ester (CA INDEX NAME)



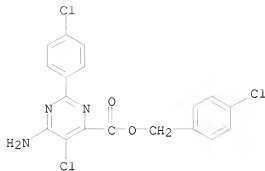
RN 1045226-91-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, hexyl ester (CA INDEX NAME)



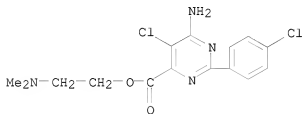
RN 1045226-93-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



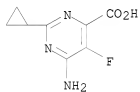
RN 1045226-95-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, 2-(dimethylamino)ethyl ester (CA INDEX NAME)



RN 1045227-02-8 CAPLUS

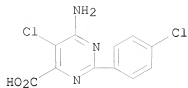
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, potassium salt (1:1) (CA INDEX NAME)



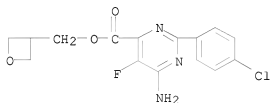
● K

RN 1045227-12-0 CAPLUS

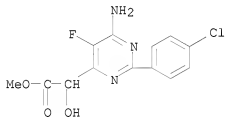
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, potassium salt (1:1) (CA INDEX NAME)



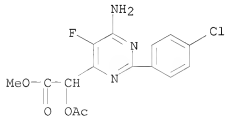
RN 1045227-15-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-,  
 3-oxetanylmethyl ester (CA INDEX NAME)



RN 1045227-16-4 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro- $\alpha$ -  
 hydroxy-, methyl ester (CA INDEX NAME)

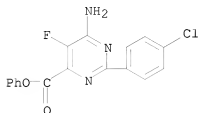


RN 1045227-21-1 CAPLUS  
 CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-2-(4-chlorophenyl)-5-  
 fluoro-, methyl ester (CA INDEX NAME)



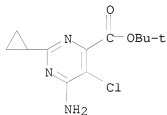
RN 1045227-24-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, phenyl ester (CA INDEX NAME)



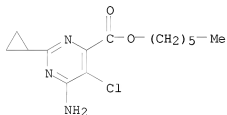
RN 1045227-32-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



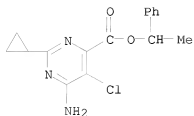
RN 1045227-33-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, hexyl ester (CA INDEX NAME)

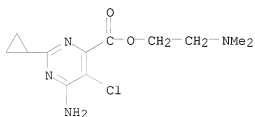


RN 1045227-34-6 CAPLUS

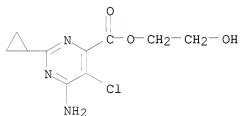
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 1-phenylethyl ester (CA INDEX NAME)



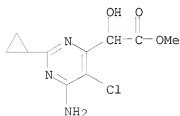
RN 1045227-35-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-(dimethylamino)ethyl ester (CA INDEX NAME)



RN 1045227-40-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-hydroxyethyl ester (CA INDEX NAME)

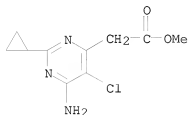


RN 1045227-41-5 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl- $\alpha$ -hydroxy-,  
 methyl ester (CA INDEX NAME)



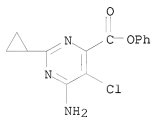
RN 1045227-42-6 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)



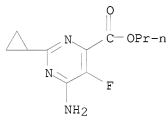
RN 1045227-49-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenyl ester  
(CA INDEX NAME)



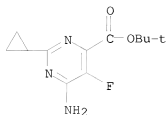
RN 1045227-50-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, propyl ester  
(CA INDEX NAME)

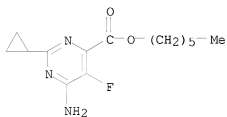


RN 1045227-51-7 CAPLUS

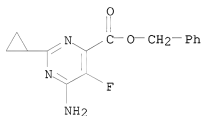
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
1,1-dimethylethyl ester (CA INDEX NAME)



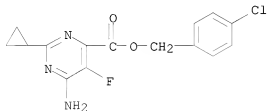
RN 1045227-56-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, hexyl ester  
 (CA INDEX NAME)



RN 1045227-57-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, phenylmethyl  
 ester (CA INDEX NAME)

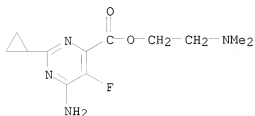


RN 1045227-58-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 (4-chlorophenyl)methyl ester (CA INDEX NAME)



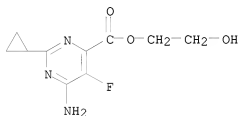
RN 1045227-59-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
2-(dimethylamino)ethyl ester (CA INDEX NAME)



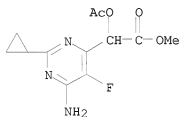
RN 1045227-64-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
2-hydroxyethyl ester (CA INDEX NAME)



RN 1045227-66-4 CAPLUS

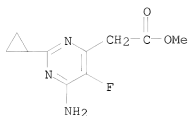
CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-2-cyclopropyl-5-  
fluoro-, methyl ester (CA INDEX NAME)



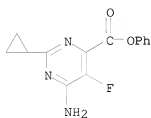
RN 1045227-67-5 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-fluoro-, methyl ester  
(CA INDEX NAME)

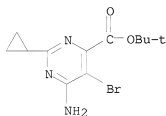




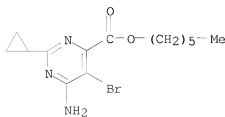
RN 1045227-74-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, phenyl ester  
(CA INDEX NAME)

RN 1045227-75-5 CAPLUS

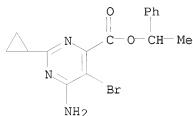
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
1,1-dimethylethyl ester (CA INDEX NAME)

RN 1045227-79-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, hexyl ester  
(CA INDEX NAME)

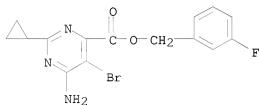
RN 1045227-81-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 1-phenylethyl ester (CA INDEX NAME)



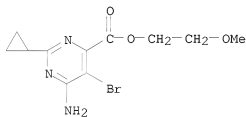
RN 1045227-82-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



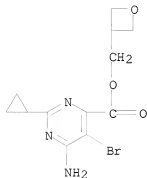
RN 1045227-83-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 2-methoxyethyl ester (CA INDEX NAME)

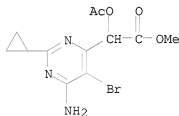


RN 1045227-87-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 3-oxetanylmethyl ester (CA INDEX NAME)

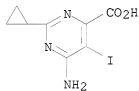


RN 1045227-89-1 CAPLUS

CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)

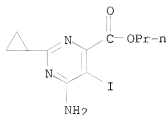
RN 1045227-91-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)

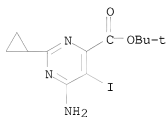


RN 1045227-95-9 CAPLUS

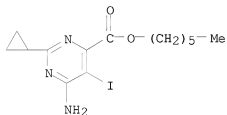
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, propyl ester (CA INDEX NAME)



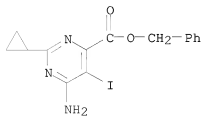
RN 1045227-97-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1045227-98-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, hexyl ester  
 (CA INDEX NAME)

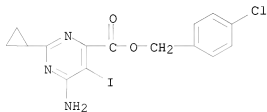


RN 1045227-99-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, phenylmethyl  
 ester (CA INDEX NAME)



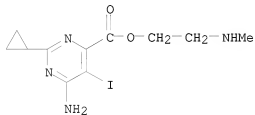
RN 1045228-03-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
(4-chlorophenyl)methyl ester (CA INDEX NAME)



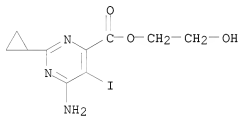
RN 1045228-05-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
2-(methylamino)ethyl ester (CA INDEX NAME)



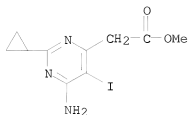
RN 1045228-06-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 2-hydroxyethyl  
ester (CA INDEX NAME)

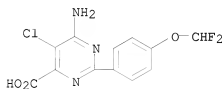


RN 1045228-11-2 CAPLUS

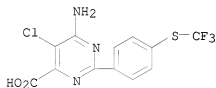
CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-iodo-, methyl ester (CA  
INDEX NAME)



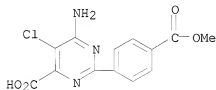
RN 1045228-13-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(difluoromethoxy)phenyl]- (CA INDEX NAME)



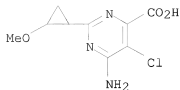
RN 1045228-14-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-[(trifluoromethyl)thio]phenyl]- (CA INDEX NAME)



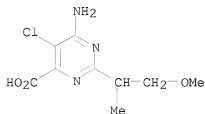
RN 1045228-15-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methoxycarbonyl)phenyl]- (CA INDEX NAME)



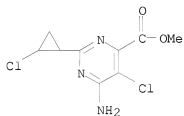
RN 1045228-20-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)- (CA INDEX NAME)



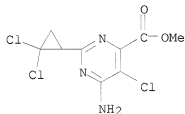
RN 1045228-21-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-  
(CA INDEX NAME)

RN 1045228-23-6 CAPLUS

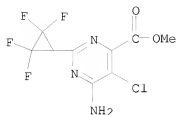
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-,  
methyl ester (CA INDEX NAME)

RN 1045228-26-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-,  
methyl ester (CA INDEX NAME)

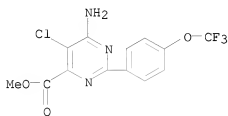
RN 1045228-28-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



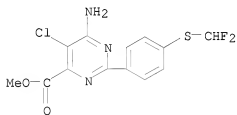
RN 1045228-32-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethoxy)phenyl]-, methyl ester (CA INDEX NAME)



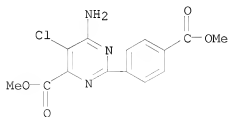
RN 1045228-33-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-[(difluoromethyl)thio]phenyl]-, methyl ester (CA INDEX NAME)



RN 1045228-34-9 CAPLUS

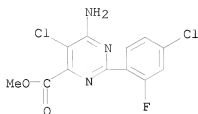
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methoxycarbonyl)phenyl]-, methyl ester (CA INDEX NAME)



RN 1045228-36-1 CAPLUS

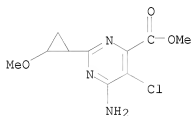


CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chloro-2-fluorophenyl)-, methyl ester (CA INDEX NAME)



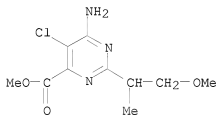
RN 1045228-40-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



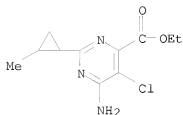
RN 1045228-41-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-, methyl ester (CA INDEX NAME)



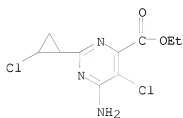
RN 1045228-42-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



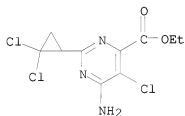
RN 1045228-44-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



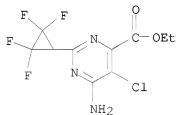
RN 1045228-48-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045228-49-6 CAPLUS

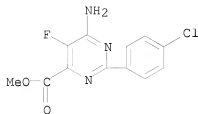
CN INDEX NAME NOT YET ASSIGNED



RN 1045228-51-0 CAPLUS

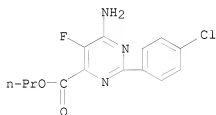
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, methyl

ester (CA INDEX NAME)



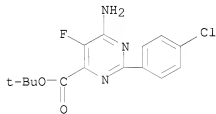
RN 1045228-55-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, propyl ester (CA INDEX NAME)



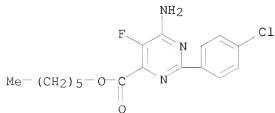
RN 1045228-56-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, 1,1-dimethylethyl ester (CA INDEX NAME)



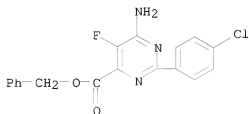
RN 1045228-57-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, hexyl ester (CA INDEX NAME)



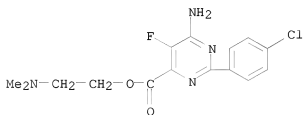
RN 1045228-59-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, phenylmethyl ester (CA INDEX NAME)



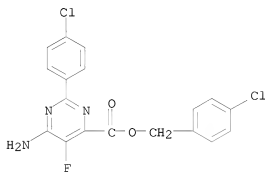
RN 1045228-63-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, 2-(dimethylamino)ethyl ester (CA INDEX NAME)



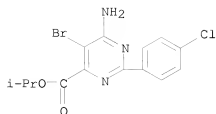
RN 1045228-64-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, (4-chlorophenyl)methyl ester (CA INDEX NAME)

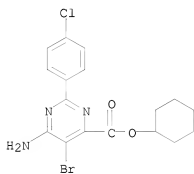


RN 1045228-70-3 CAPLUS

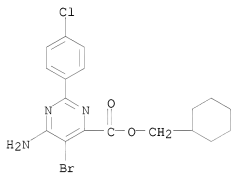
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, 1-methylethyl ester (CA INDEX NAME)



RN 1045228-71-4 CAPLUS

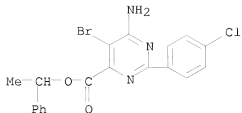
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
cyclohexyl ester (CA INDEX NAME)

RN 1045228-72-5 CAPLUS

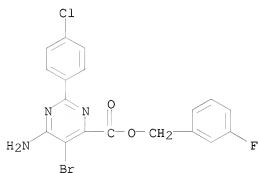
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
cyclohexylmethyl ester (CA INDEX NAME)

RN 1045228-75-8 CAPLUS

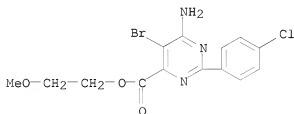
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
1-phenylethyl ester (CA INDEX NAME)



RN 1045228-78-1 CAPLUS

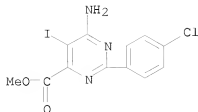
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

RN 1045228-79-2 CAPLUS

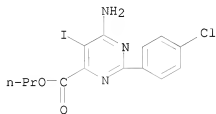
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
2-methoxyethyl ester (CA INDEX NAME)

RN 1045228-86-1 CAPLUS

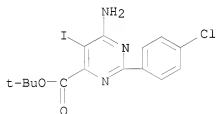
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, methyl  
ester (CA INDEX NAME)



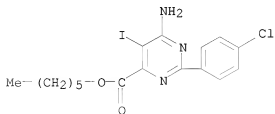
RN 1045228-87-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, propyl ester (CA INDEX NAME)



RN 1045228-88-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, 1,1-dimethylethyl ester (CA INDEX NAME)

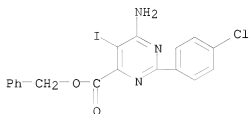


RN 1045228-90-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, hexyl ester (CA INDEX NAME)



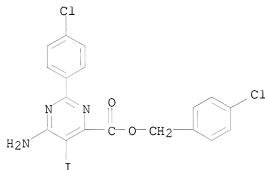
RN 1045228-94-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, phenylmethyl ester (CA INDEX NAME)



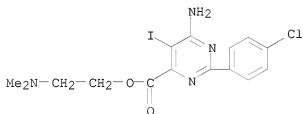
RN 1045228-95-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



RN 1045228-96-3 CAPLUS

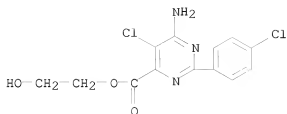
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, 2-(dimethylamino)ethyl ester (CA INDEX NAME)



RN 1045228-98-5 CAPLUS

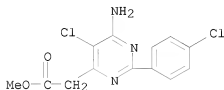
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, 2-hydroxyethyl ester (CA INDEX NAME)





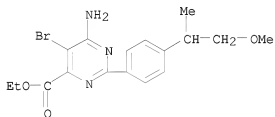
RN 1045229-03-5 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)



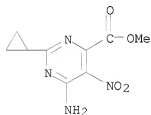
RN 1045229-10-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(2-methoxy-1-methylethyl)phenyl]-, ethyl ester (CA INDEX NAME)



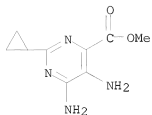
RN 1045229-11-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, methyl ester (CA INDEX NAME)



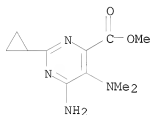
RN 1045229-12-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



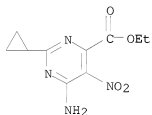
RN 1045229-14-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-, methyl ester (CA INDEX NAME)



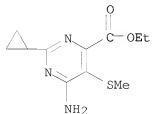
RN 1045229-18-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, ethyl ester (CA INDEX NAME)



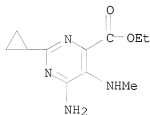
RN 1045229-19-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, ethyl ester (CA INDEX NAME)



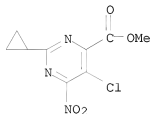
RN 1045229-20-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, ethyl ester (CA INDEX NAME)



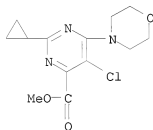
RN 1045229-22-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, methyl ester (CA INDEX NAME)



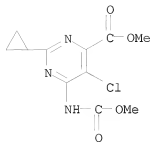
RN 1045229-26-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



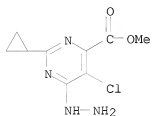
RN 1045229-27-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)



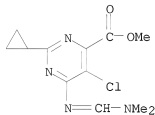
RN 1045229-28-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, methyl ester (CA INDEX NAME)



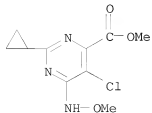
RN 1045229-30-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[dimethylamino)methyleneamino]-, methyl ester (CA INDEX NAME)



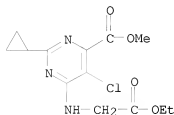
RN 1045229-34-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-, methyl ester (CA INDEX NAME)



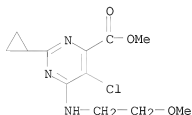
RN 1045229-35-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



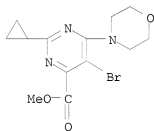
RN 1045229-36-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



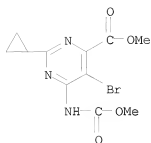
RN 1045229-38-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



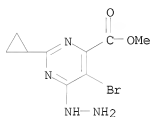
RN 1045229-42-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)



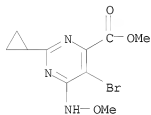
RN 1045229-43-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, methyl ester (CA INDEX NAME)



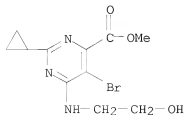
RN 1045229-44-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-, methyl ester (CA INDEX NAME)



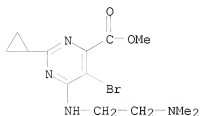
RN 1045229-46-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)



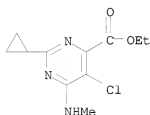
RN 1045229-50-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



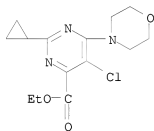
RN 1045229-51-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)



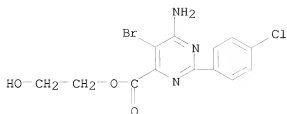
RN 1045229-52-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)

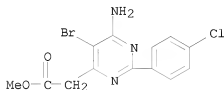


RN 1045229-57-9 CAPLUS

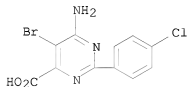
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, 2-hydroxyethyl ester (CA INDEX NAME)



RN 1045229-60-4 CAPLUS

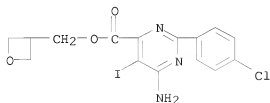
CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, methyl ester  
(CA INDEX NAME)

RN 1045229-74-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
potassium salt (1:1) (CA INDEX NAME)

● K

RN 1045229-77-3 CAPLUS

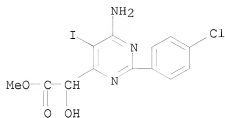
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
3-oxetanylmethyl ester (CA INDEX NAME)

RN 1045229-79-5 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-(4-chlorophenyl)-α-hydroxy-5-iodo-

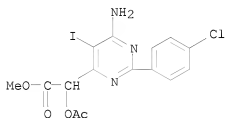


, methyl ester (CA INDEX NAME)



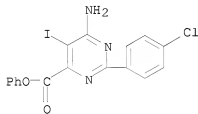
RN 1045229-82-0 CAPLUS

CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-2-(4-chlorophenyl)-5-iodo-, methyl ester (CA INDEX NAME)



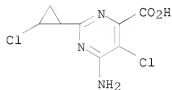
RN 1045229-87-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, phenyl ester (CA INDEX NAME)



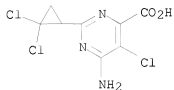
RN 1045229-96-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)- (CA INDEX NAME)



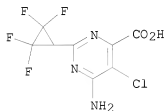
RN 1045229-97-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-  
(CA INDEX NAME)



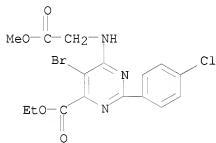
RN 1045229-98-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



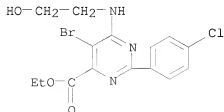
RN 1045230-03-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



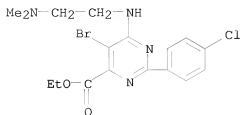
RN 1045230-04-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-hydroxyethyl)amino]-, ethyl ester (CA INDEX NAME)



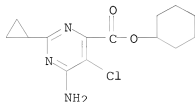
RN 1045230-06-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)



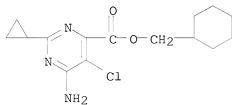
RN 1045230-07-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)



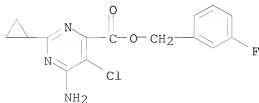
RN 1045230-11-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexylmethyl ester (CA INDEX NAME)

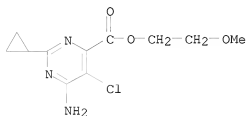


RN 1045230-12-3 CAPLUS

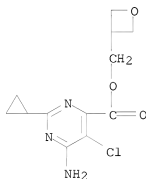
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



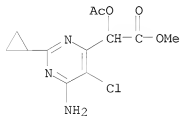
RN 1045230-14-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-methoxyethyl ester (CA INDEX NAME)

RN 1045230-15-6 CAPLUS

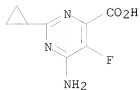
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-oxetanylmethyl ester (CA INDEX NAME)

RN 1045230-20-3 CAPLUS

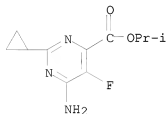
CN 4-Pyrimidineacetic acid, α-(acetyloxy)-6-amino-5-chloro-2-  
cyclopropyl-, methyl ester (CA INDEX NAME)

RN 1045230-27-0 CAPLUS

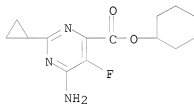
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX  
NAME)



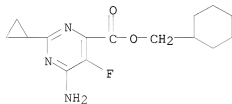
RN 1045230-28-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 1-methylethyl ester (CA INDEX NAME)



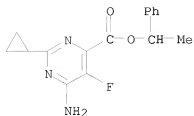
RN 1045230-30-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, cyclohexyl  
 ester (CA INDEX NAME)



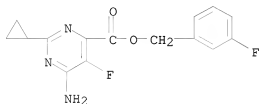
RN 1045230-31-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 cyclohexylmethyl ester (CA INDEX NAME)



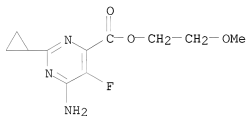
RN 1045230-35-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 1-phenylethyl ester (CA INDEX NAME)



RN 1045230-36-1 CAPLUS

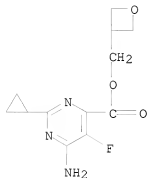
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

RN 1045230-38-3 CAPLUS

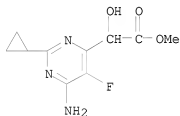
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
2-methoxyethyl ester (CA INDEX NAME)

RN 1045230-39-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
3-oxetanylmethyl ester (CA INDEX NAME)

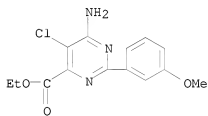


RN 1045230-45-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-fluoro- $\alpha$ -hydroxy-, methyl ester (CA INDEX NAME)

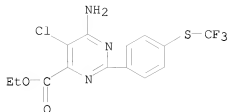
RN 1045230-47-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methoxyphenyl)-, ethyl ester (CA INDEX NAME)

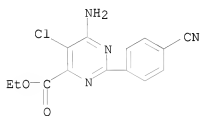


RN 1045230-51-0 CAPLUS

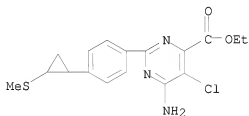
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)thiophenyl]-, ethyl ester (CA INDEX NAME)



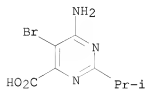
RN 1045230-53-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-cyanophenyl)-, ethyl ester (CA INDEX NAME)



RN 1045230-54-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-[2-(methylthio)cyclopropyl]phenyl]-, ethyl ester (CA INDEX NAME)

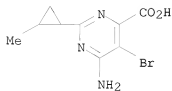


RN 1045230-58-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)- (CA INDEX NAME)



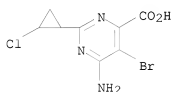
RN 1045230-59-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)- (CA INDEX NAME)





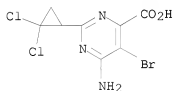
RN 1045230-61-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)- (CA INDEX NAME)



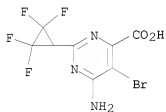
RN 1045230-62-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)- (CA INDEX NAME)



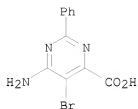
RN 1045230-66-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



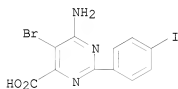
RN 1045230-67-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-phenyl- (CA INDEX NAME)



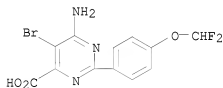
RN 1045230-69-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-iodophenyl)- (CA INDEX NAME)



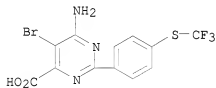
RN 1045230-70-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(difluoromethoxy)phenyl]- (CA INDEX NAME)



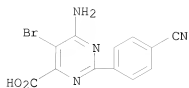
RN 1045230-74-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[(trifluoromethyl)thio]phenyl]- (CA INDEX NAME)



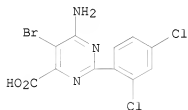
RN 1045230-75-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-cyanophenyl)- (CA INDEX NAME)



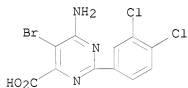
RN 1045230-77-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,4-dichlorophenyl)- (CA INDEX NAME)



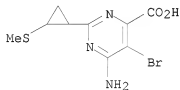
RN 1045230-78-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3,4-dichlorophenyl)- (CA INDEX NAME)



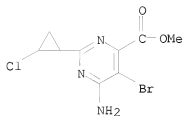
RN 1045230-82-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[2-(methylthio)cyclopropyl]- (CA INDEX NAME)



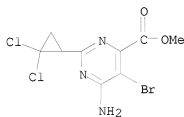
RN 1045230-84-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-, methyl ester (CA INDEX NAME)



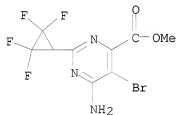
RN 1045230-86-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, methyl ester (CA INDEX NAME)



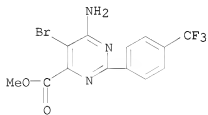
RN 1045230-88-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



RN 1045230-91-8 CAPLUS

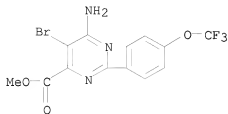
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(trifluoromethyl)phenyl]-, methyl ester (CA INDEX NAME)



RN 1045230-93-0 CAPLUS

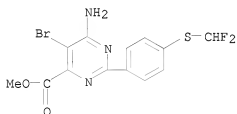
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-

(trifluoromethoxy)phenyl]-, methyl ester (CA INDEX NAME)



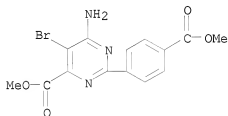
RN 1045230-94-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(difluoromethylthio)phenyl]-, methyl ester (CA INDEX NAME)



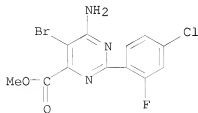
RN 1045230-96-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(methoxycarbonyl)phenyl]-, methyl ester (CA INDEX NAME)



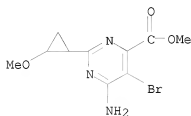
RN 1045230-99-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chloro-2-fluorophenyl)-, methyl ester (CA INDEX NAME)



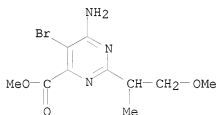
RN 1045231-01-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



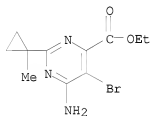
RN 1045231-02-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-, methyl ester (CA INDEX NAME)



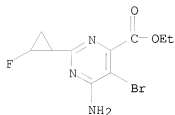
RN 1045231-04-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)

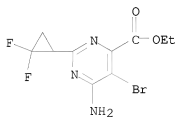


RN 1045231-07-9 CAPLUS

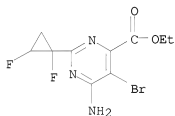
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



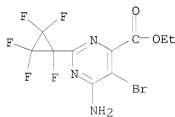
RN 1045231-09-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045231-10-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)

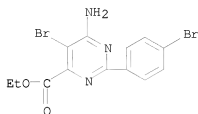


RN 1045231-12-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



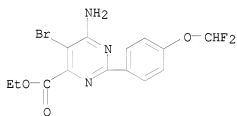
RN 1045231-15-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-bromophenyl)-, ethyl ester (CA INDEX NAME)



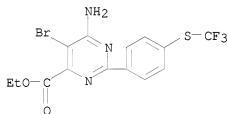
RN 1045231-17-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(difluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



RN 1045231-18-2 CAPLUS

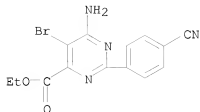
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[(trifluoromethyl)thio]phenyl]-, ethyl ester (CA INDEX NAME)



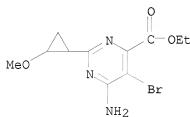
RN 1045231-20-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-cyanophenyl)-, ethyl ester (CA INDEX NAME)

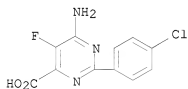




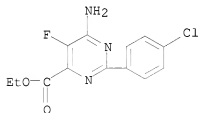
RN 1045231-23-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)



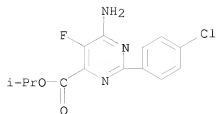
RN 1045231-25-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro- (CA INDEX NAME)



RN 1045231-29-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, ethyl ester (CA INDEX NAME)

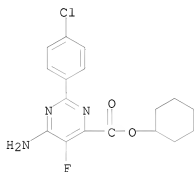


RN 1045231-30-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, 1-methylethyl ester (CA INDEX NAME)



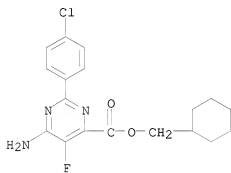
RN 1045231-31-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, cyclohexyl ester (CA INDEX NAME)



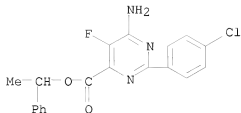
RN 1045231-33-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, cyclohexylmethyl ester (CA INDEX NAME)

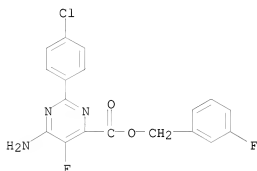


RN 1045231-37-5 CAPLUS

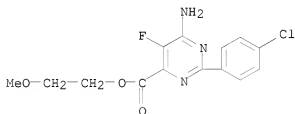
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, 1-phenylethyl ester (CA INDEX NAME)



RN 1045231-38-6 CAPLUS

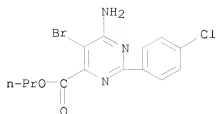
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

RN 1045231-39-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-,  
2-methoxyethyl ester (CA INDEX NAME)

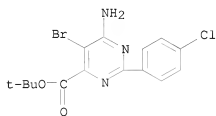
RN 1045231-46-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, propyl  
ester (CA INDEX NAME)



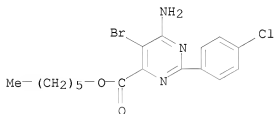
RN 1045231-47-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
1,1-dimethylethyl ester (CA INDEX NAME)



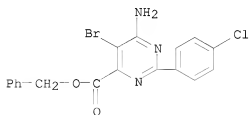
RN 1045231-50-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, hexyl  
ester (CA INDEX NAME)



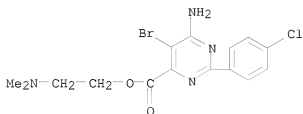
RN 1045231-51-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
phenylmethyl ester (CA INDEX NAME)



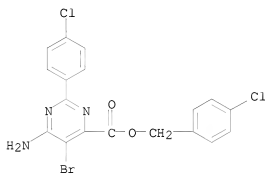
RN 1045231-54-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
2-(dimethylamino)ethyl ester (CA INDEX NAME)



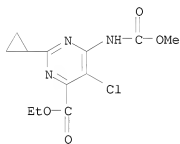
RN 1045231-55-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
(4-chlorophenyl)methyl ester (CA INDEX NAME)



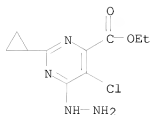
RN 1045231-57-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-  
[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)

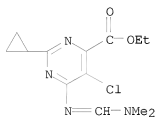


RN 1045231-59-1 CAPLUS

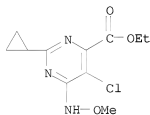
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, ethyl  
ester (CA INDEX NAME)



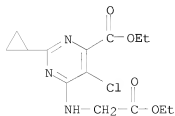
RN 1045231-62-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-  
 [[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



RN 1045231-63-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-,  
 ethyl ester (CA INDEX NAME)

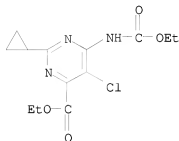


RN 1045231-65-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-  
 oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



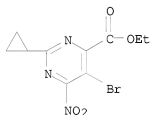
RN 1045231-66-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-  
[(ethoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



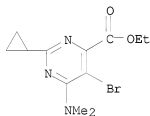
RN 1045231-70-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-nitro-, ethyl ester  
(CA INDEX NAME)



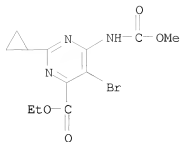
RN 1045231-71-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(dimethylamino)-,  
ethyl ester (CA INDEX NAME)



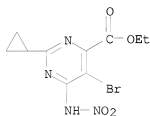
RN 1045231-73-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-  
[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



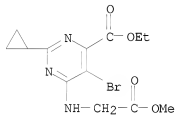
RN 1045231-74-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



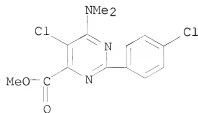
RN 1045231-78-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



RN 1045231-80-8 CAPLUS

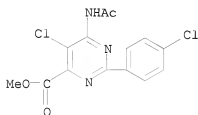
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(dimethylamino)-, methyl ester (CA INDEX NAME)





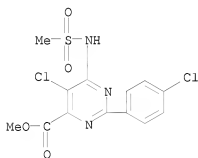
RN 1045231-81-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetlamino)-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)



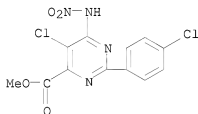
RN 1045231-83-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



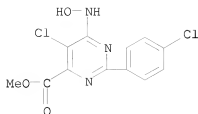
RN 1045231-86-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(nitroamino)-, methyl ester (CA INDEX NAME)



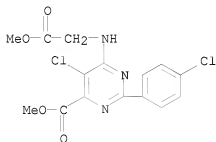
RN 1045231-88-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



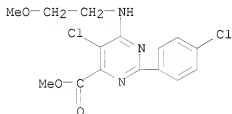
RN 1045231-89-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



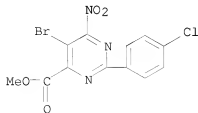
RN 1045231-91-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



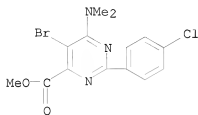
RN 1045231-94-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-nitro-, methyl ester (CA INDEX NAME)



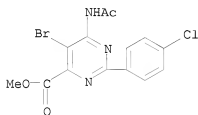
RN 1045231-96-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(dimethylamino)-, methyl ester (CA INDEX NAME)



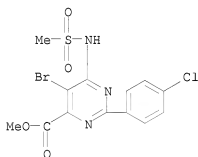
RN 1045231-97-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)



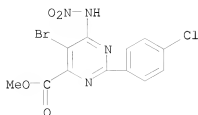
RN 1045231-99-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



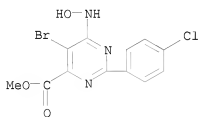
RN 1045232-01-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(nitroamino)-, methyl ester (CA INDEX NAME)



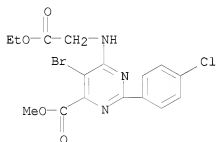
RN 1045232-04-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



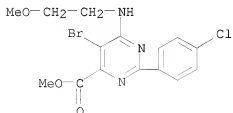
RN 1045232-05-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



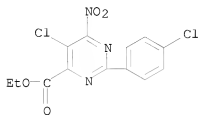
RN 1045232-08-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



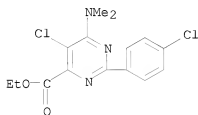
RN 1045232-09-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-nitro-, ethyl ester (CA INDEX NAME)



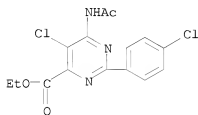
RN 1045232-11-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



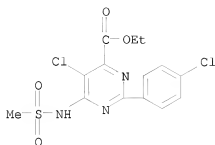
RN 1045232-13-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



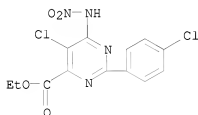
RN 1045232-16-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



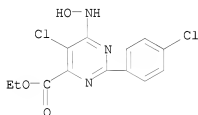
RN 1045232-17-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



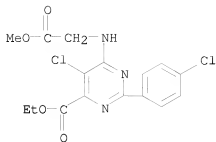
RN 1045232-19-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)



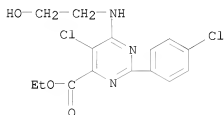
RN 1045232-21-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



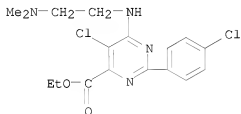
RN 1045232-24-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-hydroxyethyl)amino]-, ethyl ester (CA INDEX NAME)



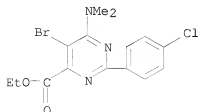
RN 1045232-25-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)

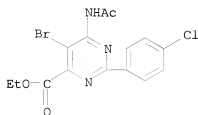


RN 1045232-27-6 CAPLUS

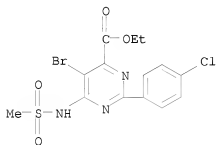
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



RN 1045232-29-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



RN 1045232-32-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



IT 1045232-33-4 1045232-35-6 1045232-40-3  
 1045232-42-5 1045232-45-8 1045232-48-1  
 1045232-53-8 1045232-60-7 1045232-68-5  
 1045232-69-6 1045232-71-0 1045232-72-1  
 1045232-76-5 1045232-77-6 1045232-80-1  
 1045232-83-4 1045232-85-6 1045232-87-8  
 1045232-88-9 1045232-91-4 1045232-92-5  
 1045232-95-8 1045232-96-9 1045233-00-8  
 1045233-08-6 1045233-13-3 1045233-15-5  
 1045233-17-7 1045233-18-8 1045233-21-3  
 1045233-26-8 1045233-28-0 1045233-29-1  
 1045233-33-7 1045233-34-8 1045233-36-0  
 1045233-37-1 1045233-41-7 1045233-42-8  
 1045233-44-0 1045233-45-1 1045233-49-5  
 1045233-50-8 1045233-52-0 1045233-53-1  
 1045233-57-5 1045233-59-7 1045233-60-0  
 1045233-61-1 1045233-65-5 1045233-67-7  
 1045233-68-8 1045233-74-6 1045233-76-8  
 1045233-78-0 1045233-80-4 1045233-82-6  
 1045233-84-8 1045233-86-0 1045233-88-2  
 1045233-92-8 1045233-94-0 1045234-00-1  
 1045234-07-8 1045234-09-0 1045234-22-7  
 1045234-23-8 1045234-27-2 1045234-28-3  
 1045234-30-7 1045234-31-8 1045234-35-2



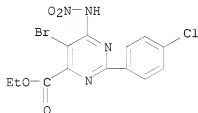
1045234-36-3 1045234-38-5 1045234-39-6  
 1045234-43-2 1045234-44-3 1045234-46-5  
 1045234-47-6 1045234-51-2 1045234-52-3  
 1045234-54-5 1045234-55-6 1045234-59-0  
 1045234-60-3 1045234-62-5 1045234-63-6  
 1045234-67-0 1045234-69-2 1045234-82-9  
 1045234-86-3 1045234-87-4 1045234-88-5  
 1045234-91-0 1045234-94-3 1045234-95-4  
 1045234-99-8 1045235-01-5 1045235-04-8  
 1045235-05-9 1045235-07-1 1045235-09-3  
 1045235-11-7 1045235-13-9 1045235-15-1  
 1045235-17-3 1045235-19-5 1045235-21-9  
 1045235-23-1 1045235-25-3 1045235-27-5  
 1045235-29-7 1045235-31-1 1045235-34-4  
 1045235-35-5 1045235-37-7 1045235-39-9  
 1045235-42-4 1045235-43-5 1045235-45-7  
 1045235-47-9 1045235-50-4 1045235-51-5  
 1045235-53-7 1045235-54-8 1045235-58-2  
 1045235-59-3 1045235-61-7 1045235-62-8  
 1045235-66-2 1045235-67-3 1045235-69-5  
 1045235-70-8 1045235-74-2 1045235-75-3  
 1045235-77-5 1045235-78-6 1045235-82-2  
 1045235-83-3 1045235-85-5 1045235-86-6  
 1045235-90-2 1045235-91-3 1045235-93-5  
 1045235-94-6 1045235-98-0 1045235-99-1  
 1045236-01-8 1045236-02-9 1045236-06-3  
 1045236-07-4 1045236-09-6 1045236-10-9  
 1045236-14-3 1045236-15-4 1045236-17-6  
 1045236-18-7 1045236-22-3 1045236-23-4  
 1045236-25-6 1045236-26-7 1045236-30-3  
 1045236-31-4 1045236-32-5 1045236-34-7  
 1045236-38-1 1045236-39-2 1045236-40-5  
 1045236-42-7 1045236-46-1 1045236-47-2  
 1045236-48-3 1045236-50-7 1045236-54-1  
 1045236-55-2 1045236-57-4 1045236-58-5

RL: PRPH (Prophetic)

(Preparation of herbicidal pyrimidines)

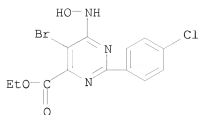
RN 1045232-33-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(nitroamino)-, ethyl ester (CA INDEX NAME)

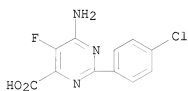


RN 1045232-35-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)

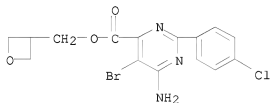


RN 1045232-40-3 CAPLUS

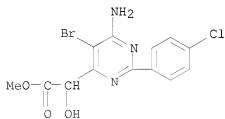
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-,  
potassium salt (1:1) (CA INDEX NAME)

● K

RN 1045232-42-5 CAPLUS

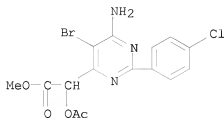
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-,  
3-oxetanylmethyl ester (CA INDEX NAME)

RN 1045232-45-8 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-(4-chlorophenyl)- $\alpha$ -  
hydroxy-, methyl ester (CA INDEX NAME)

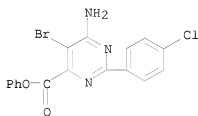
RN 1045232-48-1 CAPLUS

CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-5-bromo-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)



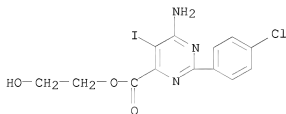
RN 1045232-53-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, phenyl ester (CA INDEX NAME)



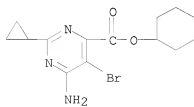
RN 1045232-60-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, 2-hydroxyethyl ester (CA INDEX NAME)

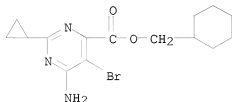


RN 1045232-68-5 CAPLUS

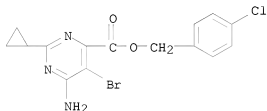
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)



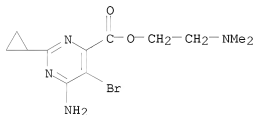
RN 1045232-69-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 cyclohexylmethyl ester (CA INDEX NAME)



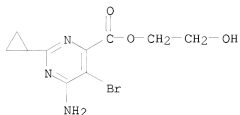
RN 1045232-71-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 (4-chlorophenyl)methyl ester (CA INDEX NAME)



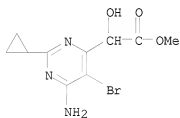
RN 1045232-72-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-(dimethylamino)ethyl ester (CA INDEX NAME)



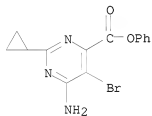
RN 1045232-76-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-hydroxyethyl ester (CA INDEX NAME)



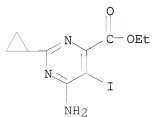
RN 1045232-77-6 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -hydroxy-,  
methyl ester (CA INDEX NAME)

RN 1045232-80-1 CAPLUS

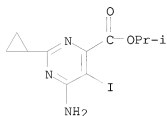
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenyl ester  
(CA INDEX NAME)

RN 1045232-83-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, ethyl ester  
(CA INDEX NAME)

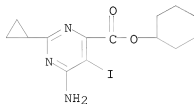
RN 1045232-85-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-methylethyl ester (CA INDEX NAME)



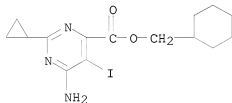
RN 1045232-87-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexyl ester (CA INDEX NAME)



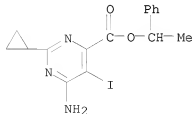
RN 1045232-88-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexylmethyl ester (CA INDEX NAME)

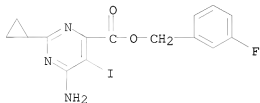


RN 1045232-91-4 CAPLUS

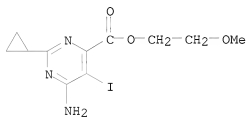
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-phenylethyl ester (CA INDEX NAME)



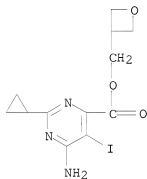
RN 1045232-92-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

RN 1045232-95-8 CAPLUS

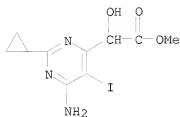
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 2-methoxyethyl  
ester (CA INDEX NAME)

RN 1045232-96-9 CAPLUS

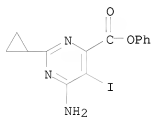
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
3-oxetanylmethyl ester (CA INDEX NAME)

RN 1045233-00-8 CAPLUS

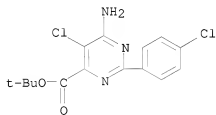
CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-α-hydroxy-5-iodo-,  
methyl ester (CA INDEX NAME)



RN 1045233-08-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, phenyl ester  
 (CA INDEX NAME)

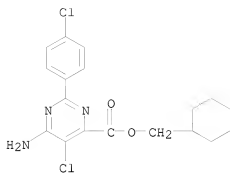


RN 1045233-13-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
 1,1-dimethylethyl ester (CA INDEX NAME)

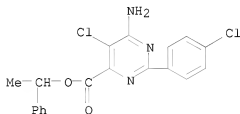


RN 1045233-15-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
 cyclohexylmethyl ester (CA INDEX NAME)

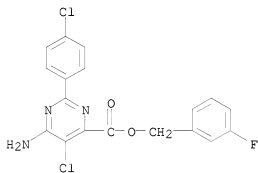




RN 1045233-17-7 CAPLUS

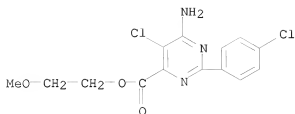
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
1-phenylethyl ester (CA INDEX NAME)

RN 1045233-18-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

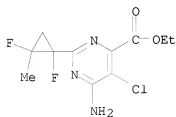
RN 1045233-21-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
2-methoxyethyl ester (CA INDEX NAME)



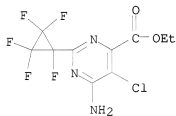
RN 1045233-26-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



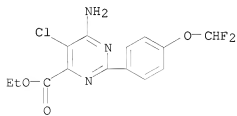
RN 1045233-28-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



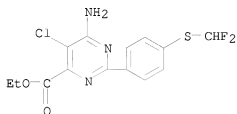
RN 1045233-29-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(difluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



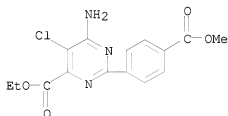
RN 1045233-33-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-  
[(difluoromethyl)thio]phenyl]-, ethyl ester (CA INDEX NAME)



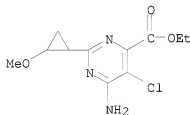
RN 1045233-34-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methoxycarbonyl)phenyl]-, ethyl ester (CA INDEX NAME)



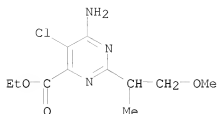
RN 1045233-36-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)



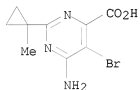
RN 1045233-37-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-, ethyl ester (CA INDEX NAME)



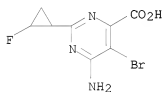
RN 1045233-41-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)- (CA INDEX NAME)



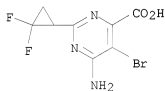
RN 1045233-42-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)- (CA INDEX NAME)



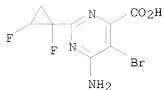
RN 1045233-44-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)- (CA INDEX NAME)



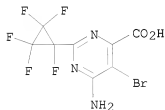
RN 1045233-45-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)- (CA INDEX NAME)



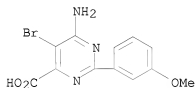
RN 1045233-49-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)- (CA INDEX NAME)



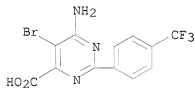
RN 1045233-50-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3-methoxyphenyl)- (CA INDEX NAME)



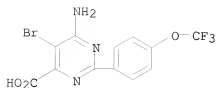
RN 1045233-52-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

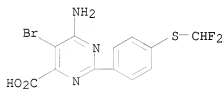


RN 1045233-53-1 CAPLUS

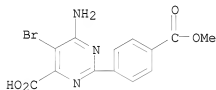
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



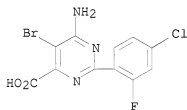
RN 1045233-57-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-  
[(difluoromethyl)thio]phenyl]- (CA INDEX NAME)

RN 1045233-59-7 CAPLUS

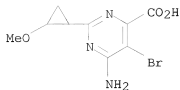
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(methoxycarbonyl)phenyl]-  
(CA INDEX NAME)

RN 1045233-60-0 CAPLUS

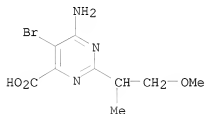
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chloro-2-fluorophenyl)-  
(CA INDEX NAME)

RN 1045233-61-1 CAPLUS

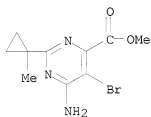
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-  
(CA INDEX NAME)



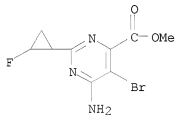
RN 1045233-65-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-  
(CA INDEX NAME)

RN 1045233-67-7 CAPLUS

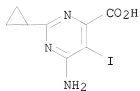
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-,  
methyl ester (CA INDEX NAME)

RN 1045233-68-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-,  
methyl ester (CA INDEX NAME)

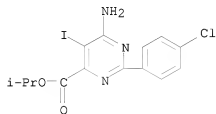
RN 1045233-74-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, potassium salt  
(1:1) (CA INDEX NAME)

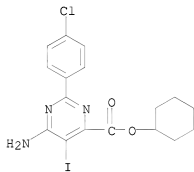


● K

RN 1045233-76-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
1-methylethyl ester (CA INDEX NAME)

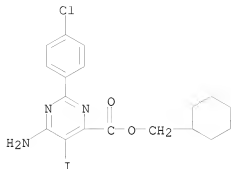
RN 1045233-78-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
cyclohexyl ester (CA INDEX NAME)

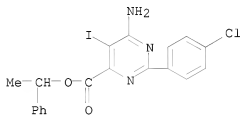
RN 1045233-80-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
cyclohexylmethyl ester (CA INDEX NAME)

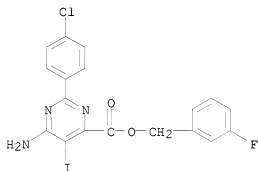




RN 1045233-82-6 CAPLUS

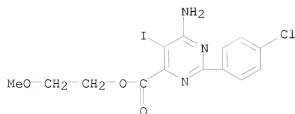
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
1-phenylethyl ester (CA INDEX NAME)

RN 1045233-84-8 CAPLUS

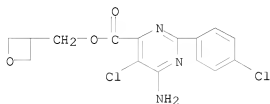
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)

RN 1045233-86-0 CAPLUS

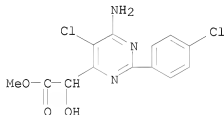
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-,  
2-methoxyethyl ester (CA INDEX NAME)



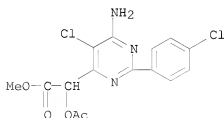
RN 1045233-88-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
3-oxetanylmethyl ester (CA INDEX NAME)

RN 1045233-92-8 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-α-  
hydroxy-, methyl ester (CA INDEX NAME)

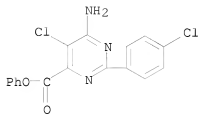
RN 1045233-94-0 CAPLUS

CN 4-Pyrimidineacetic acid, α-(acetyloxy)-6-amino-5-chloro-2-(4-  
chlorophenyl)-, methyl ester (CA INDEX NAME)

RN 1045234-00-1 CAPLUS

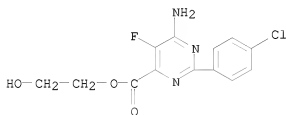
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, phenyl

ester (CA INDEX NAME)



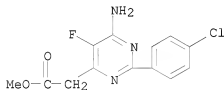
RN 1045234-07-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, 2-hydroxyethyl ester (CA INDEX NAME)



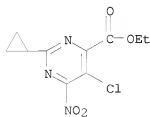
RN 1045234-09-0 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-(4-chlorophenyl)-5-fluoro-, methyl ester (CA INDEX NAME)



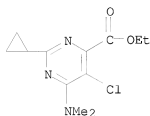
RN 1045234-22-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, ethyl ester (CA INDEX NAME)



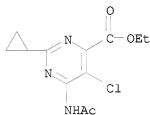
RN 1045234-23-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



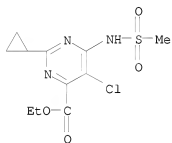
RN 1045234-27-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



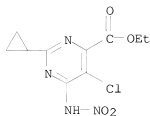
RN 1045234-28-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)

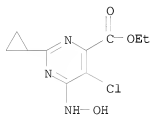


RN 1045234-30-7 CAPLUS

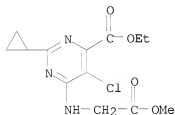
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



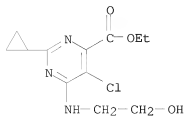
RN 1045234-31-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)



RN 1045234-35-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)

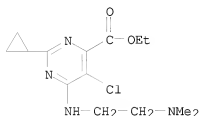


RN 1045234-36-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, ethyl ester (CA INDEX NAME)



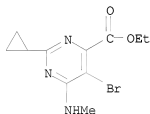
RN 1045234-38-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)



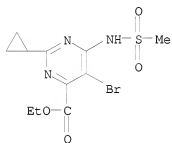
RN 1045234-39-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)



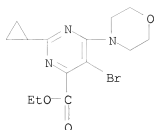
RN 1045234-43-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



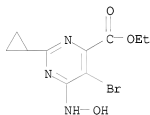
RN 1045234-44-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)



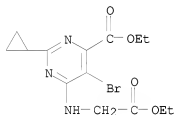
RN 1045234-46-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)



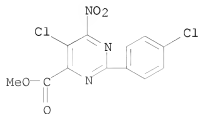
RN 1045234-47-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



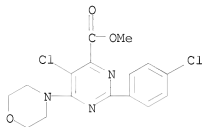
RN 1045234-51-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-nitro-, methyl ester (CA INDEX NAME)



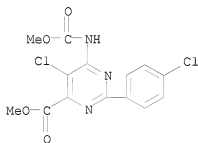
RN 1045234-52-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



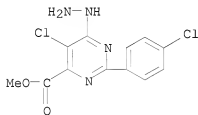
RN 1045234-54-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)



RN 1045234-55-6 CAPLUS

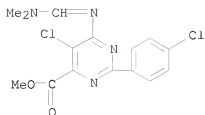
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-hydrazinyl-, methyl ester (CA INDEX NAME)



RN 1045234-59-0 CAPLUS

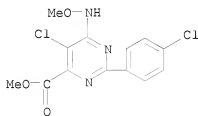
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[[dimethylamino)methylene]amino]-, methyl ester (CA INDEX NAME)





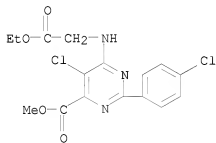
RN 1045234-60-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(methoxyamino)-, methyl ester (CA INDEX NAME)



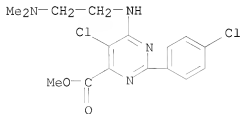
RN 1045234-62-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



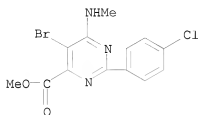
RN 1045234-63-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



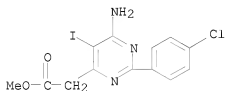
RN 1045234-67-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(methylamino)-, methyl ester (CA INDEX NAME)



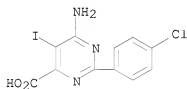
RN 1045234-69-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, methyl ester (CA INDEX NAME)



RN 1045234-82-9 CAPLUS

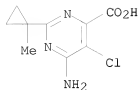
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, potassium salt (1:1) (CA INDEX NAME)



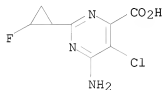
● K

RN 1045234-86-3 CAPLUS

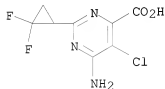
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)- (CA INDEX NAME)



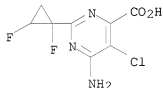
RN 1045234-87-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-  
(CA INDEX NAME)

RN 1045234-88-5 CAPLUS

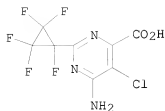
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-  
(CA INDEX NAME)

RN 1045234-91-0 CAPLUS

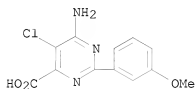
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluorocyclopropyl)-  
(CA INDEX NAME)

RN 1045234-94-3 CAPLUS

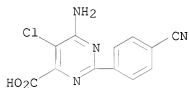
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)- (CA INDEX NAME)



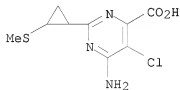
RN 1045234-95-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methoxyphenyl)- (CA INDEX NAME)



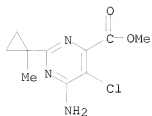
RN 1045234-99-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-cyanophenyl)- (CA INDEX NAME)



RN 1045235-01-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[2-(methylthio)cyclopropyl]- (CA INDEX NAME)

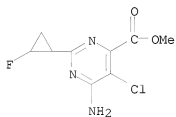


RN 1045235-04-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



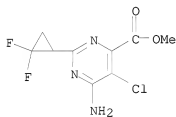
RN 1045235-05-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, methyl ester (CA INDEX NAME)



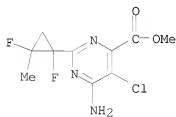
RN 1045235-07-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



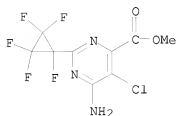
RN 1045235-09-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



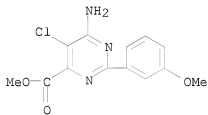
RN 1045235-11-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-, methyl ester (CA INDEX NAME)



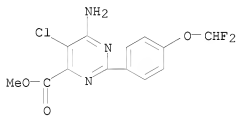
RN 1045235-13-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



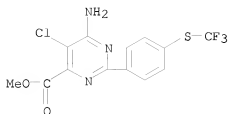
RN 1045235-15-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(difluoromethoxy)phenyl]-, methyl ester (CA INDEX NAME)

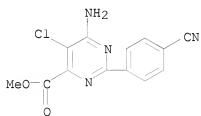


RN 1045235-17-3 CAPLUS

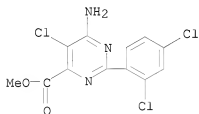
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-[(trifluoromethyl)thio]phenyl]-, methyl ester (CA INDEX NAME)



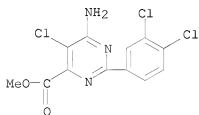
RN 1045235-19-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-cyanophenyl)-, methyl ester (CA INDEX NAME)



RN 1045235-21-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichlorophenyl)-, methyl ester (CA INDEX NAME)

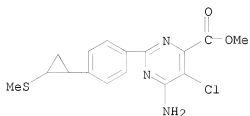


RN 1045235-23-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dichlorophenyl)-, methyl ester (CA INDEX NAME)



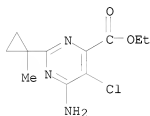
RN 1045235-25-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-[2-(methylthio)cyclopropyl]phenyl]-, methyl ester (CA INDEX NAME)



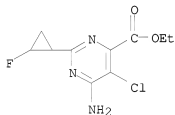
RN 1045235-27-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045235-29-7 CAPLUS

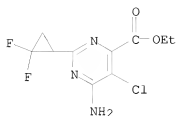
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045235-31-1 CAPLUS

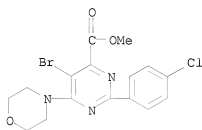
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)





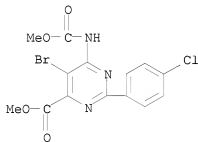
RN 1045235-34-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



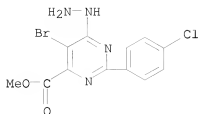
RN 1045235-35-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)

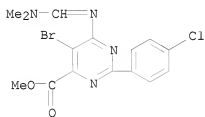


RN 1045235-37-7 CAPLUS

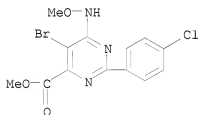
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-hydrazinyl-, methyl ester (CA INDEX NAME)



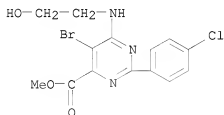
RN 1045235-39-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-  
[[dimethylamino)methylene]amino]-, methyl ester (CA INDEX NAME)

RN 1045235-42-4 CAPLUS

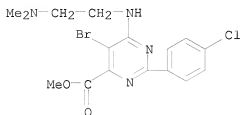
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(methoxyamino)-,  
methyl ester (CA INDEX NAME)

RN 1045235-43-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-  
hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)

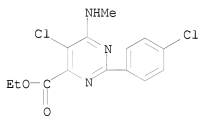
RN 1045235-45-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



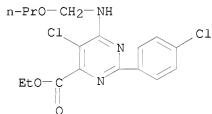
RN 1045235-47-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(methylamino)-, ethyl ester (CA INDEX NAME)



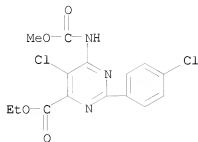
RN 1045235-50-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(propoxymethyl)amino]-, ethyl ester (CA INDEX NAME)



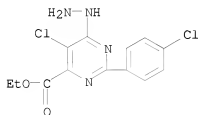
RN 1045235-51-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



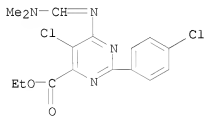
RN 1045235-53-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-hydrazinyl-, ethyl ester (CA INDEX NAME)



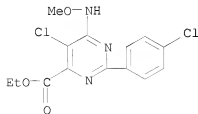
RN 1045235-54-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[[dimethylamino)methyleneamino]-, ethyl ester (CA INDEX NAME)



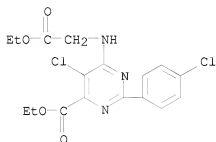
RN 1045235-58-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



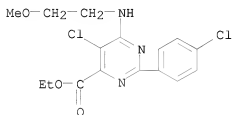
RN 1045235-59-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-ethoxyethyl)amino]-, ethyl ester (CA INDEX NAME)



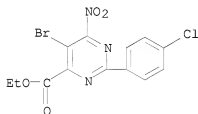
RN 1045235-61-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-[(2-methoxyethyl)amino]-, ethyl ester (CA INDEX NAME)



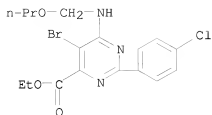
RN 1045235-62-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-nitro-, ethyl ester (CA INDEX NAME)

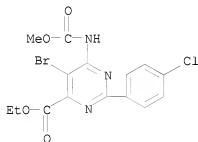


RN 1045235-66-2 CAPLUS

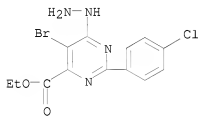
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(propoxymethyl)amino]-, ethyl ester (CA INDEX NAME)



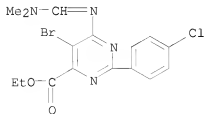
RN 1045235-67-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-  
[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)

RN 1045235-69-5 CAPLUS

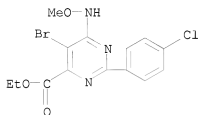
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-hydrazinyl-,  
ethyl ester (CA INDEX NAME)

RN 1045235-70-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-  
[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)

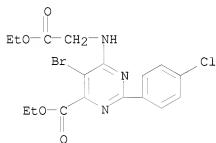
RN 1045235-74-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



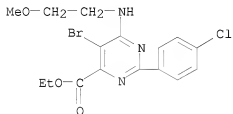
RN 1045235-75-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



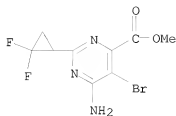
RN 1045235-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-(4-chlorophenyl)-6-[(2-methoxyethyl)amino]-, ethyl ester (CA INDEX NAME)

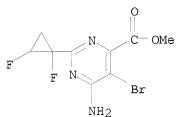


RN 1045235-78-6 CAPLUS

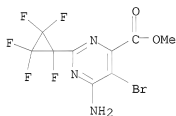
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



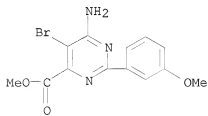
RN 1045235-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1045235-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, methyl ester (CA INDEX NAME)



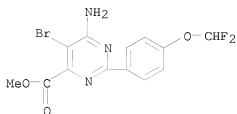
RN 1045235-85-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3-methoxyphenyl)-, methyl ester (CA INDEX NAME)



RN 1045235-86-6 CAPLUS

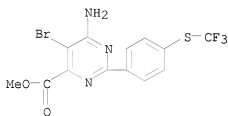


CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(difluoromethoxy)phenyl]-, methyl ester (CA INDEX NAME)



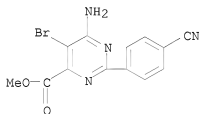
RN 1045235-90-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[(trifluoromethyl)thio]phenyl]-, methyl ester (CA INDEX NAME)



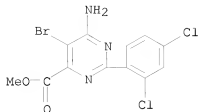
RN 1045235-91-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-cyanophenyl)-, methyl ester (CA INDEX NAME)

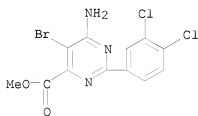


RN 1045235-93-5 CAPLUS

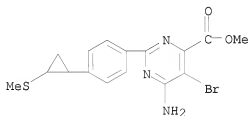
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,4-dichlorophenyl)-, methyl ester (CA INDEX NAME)



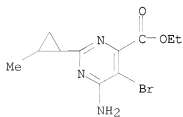
RN 1045235-94-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3,4-dichlorophenyl)-, methyl ester (CA INDEX NAME)



RN 1045235-98-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[2-(methylthio)cyclopropyl]phenyl]-, methyl ester (CA INDEX NAME)

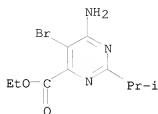


RN 1045235-99-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



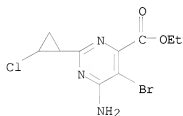
RN 1045236-01-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



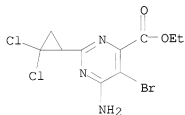
RN 1045236-02-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



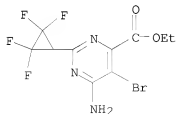
RN 1045236-06-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, ethyl ester (CA INDEX NAME)

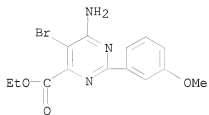


RN 1045236-07-4 CAPLUS

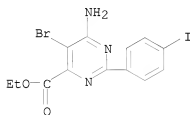
CN INDEX NAME NOT YET ASSIGNED



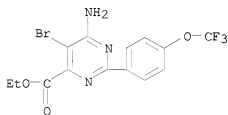
RN 1045236-09-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3-methoxyphenyl)-, ethyl ester (CA INDEX NAME)



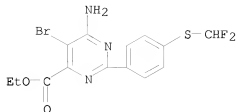
RN 1045236-10-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



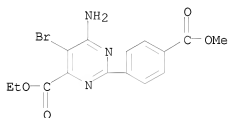
RN 1045236-14-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(trifluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



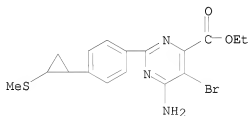
RN 1045236-15-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[(difluoromethyl)thio]phenyl]-, ethyl ester (CA INDEX NAME)



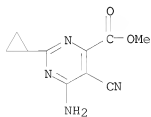
RN 1045236-17-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(methoxycarbonyl)phenyl]-, ethyl ester (CA INDEX NAME)



RN 1045236-18-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-[2-(methylthio)cyclopropyl]phenyl]-, ethyl ester (CA INDEX NAME)

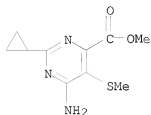


RN 1045236-22-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-cyano-2-cyclopropyl-, methyl ester (CA INDEX NAME)



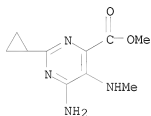
RN 1045236-23-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, methyl ester (CA INDEX NAME)



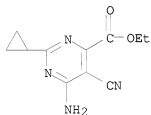
RN 1045236-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, methyl ester (CA INDEX NAME)



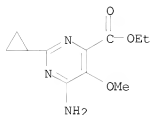
RN 1045236-26-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-cyano-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

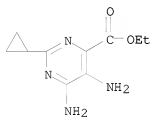


RN 1045236-30-3 CAPLUS

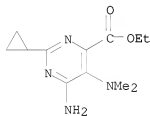
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, ethyl ester (CA INDEX NAME)



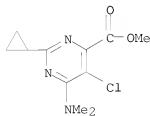
RN 1045236-31-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



RN 1045236-32-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-, ethyl ester (CA INDEX NAME)

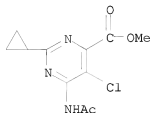


RN 1045236-34-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-, methyl ester (CA INDEX NAME)



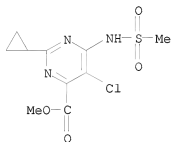
RN 1045236-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



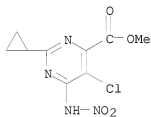
RN 1045236-39-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



RN 1045236-40-5 CAPLUS

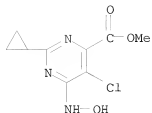
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



RN 1045236-42-7 CAPLUS

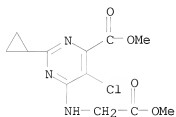
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)





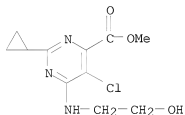
RN 1045236-46-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



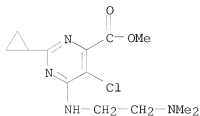
RN 1045236-47-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)



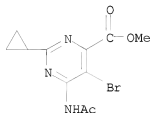
RN 1045236-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



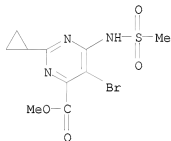
RN 1045236-50-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)



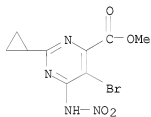
RN 1045236-54-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



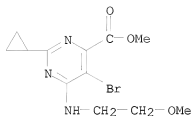
RN 1045236-55-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



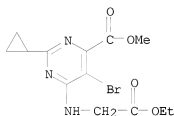
RN 1045236-57-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1045236-58-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)

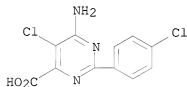


IT 858955-38-1P 858956-08-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of herbicidal pyrimidines)

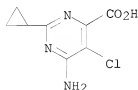
RN 858955-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)

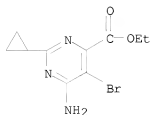


RN 858956-08-8 CAPLUS

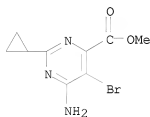
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



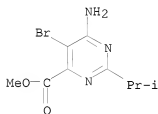
IT 858954-76-4P 858954-77-5P 858954-78-6P  
858954-79-7P 858954-80-0P 858954-81-1P  
858954-82-2P 858954-83-3P 858954-84-4P  
858954-86-6P 858954-87-7P 858954-88-8P  
858954-89-9P 858954-90-2P 858954-91-3P  
858954-92-4P 858954-93-5P 858954-96-8P  
858954-97-9P 858954-99-1P 858955-02-9P  
858955-03-0P 858955-04-1P 858955-05-2P  
858955-06-3P 858955-07-4P 858955-08-5P  
858955-09-6P 858955-10-9P 858955-11-0P  
858955-12-1P 858955-13-2P 858955-14-3P  
858955-15-4P 858955-16-5P 858955-17-6P  
858955-20-1P 858955-25-6P 858955-26-7P  
858955-27-8P 858955-28-9P 858955-29-0P  
858955-30-3P 858955-31-4P 858955-32-5P  
858955-33-6P 858955-34-7P 858955-35-8P  
858955-36-9P 858955-37-0P 858955-39-2P  
858955-40-5P 858955-41-6P 858955-42-7P  
858955-43-8P 858955-44-9P 858955-45-0P  
858955-46-1P 858955-47-2P 858955-48-3P  
858955-49-4P 858955-50-7P 858955-51-8P  
858955-52-9P 858955-53-0P 858955-55-2P  
858955-56-3P 858955-57-4P 858955-59-6P  
858955-60-9P 858955-61-0P 858955-62-1P  
858955-63-2P 858955-64-3P 858955-65-4P  
858955-66-5P 858955-67-6P 858955-68-7P  
858955-69-8P 858955-70-1P 858955-71-2P  
858955-72-3P 858955-73-4P 858955-74-5P  
858955-75-6P 858955-76-7P 858955-77-8P  
858955-78-9P 858955-79-0P 858955-80-3P  
858955-81-4P 858955-82-5P 858955-83-6P  
858955-84-7P 858955-85-8P 858955-86-9P  
858955-87-0P 858955-88-1P 858955-89-2P  
858955-90-5P 858955-91-6P 858955-92-7P  
858955-93-8P 858955-94-9P 858955-95-0P  
858955-96-1P 858955-97-2P 858955-98-3P  
858955-99-4P 858956-00-0P 858956-01-1P  
858956-02-2P 858956-06-6P 858956-09-9P  
858956-10-2P 858956-12-4P 858956-13-5P  
858956-14-6P 858956-15-7P 858956-16-8P  
858956-17-9P 858956-18-0P 858956-19-1P  
858956-20-4P 858956-21-5P 858956-22-6P  
858956-29-3P 858956-30-6P 858956-31-7P  
858956-32-8P 858956-33-9P 858956-34-0P  
858956-35-1P 858956-36-2P 858956-40-8P  
858956-41-9P 858956-42-0P 858956-43-1P  
858956-44-2P 858956-45-3P 858956-46-4P  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(preparation of herbicidal pyrimidines)  
RN 858954-76-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester  
(CA INDEX NAME)



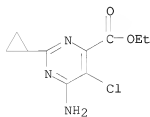
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)

RN 858954-78-6 CAPLUS

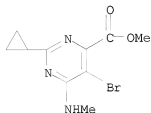
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, methyl ester  
(CA INDEX NAME)

RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
(CA INDEX NAME)

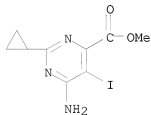
RN 858954-80-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-, methyl ester (CA INDEX NAME)



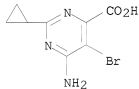
RN 858954-81-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, methyl ester (CA INDEX NAME)



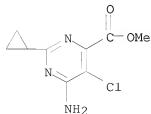
RN 858954-82-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, (CA INDEX NAME)



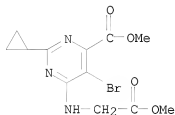
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



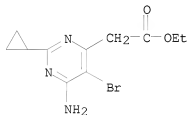
RN 858954-84-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



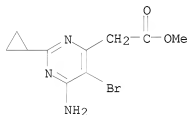
RN 858954-86-6 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



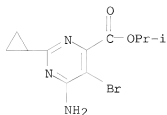
RN 858954-87-7 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)

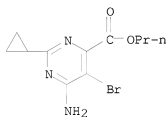


RN 858954-88-8 CAPLUS

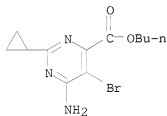
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 1-methylethyl ester (CA INDEX NAME)



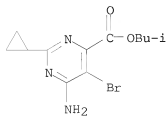
RN 858954-89-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, propyl ester  
 (CA INDEX NAME)



RN 858954-90-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, butyl ester  
 (CA INDEX NAME)



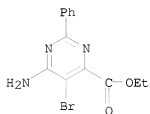
RN 858954-91-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-methylpropyl ester (CA INDEX NAME)



RN 858954-92-4 CAPLUS

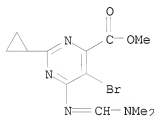


CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-phenyl-, ethyl ester (CA INDEX NAME)



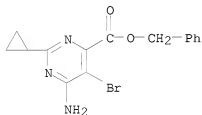
RN 858954-93-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[dimethylamino)methylene]amino]-, methyl ester (CA INDEX NAME)



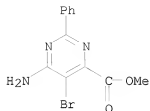
RN 858954-96-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)

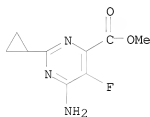


RN 858954-97-9 CAPLUS

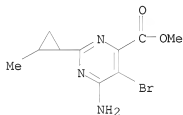
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-phenyl-, methyl ester (CA INDEX NAME)



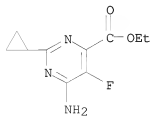
RN 858954-99-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, methyl ester  
(CA INDEX NAME)

RN 858955-02-9 CAPLUS

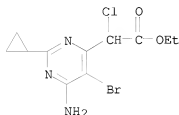
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-,  
methyl ester (CA INDEX NAME)

RN 858955-03-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, ethyl ester  
(CA INDEX NAME)

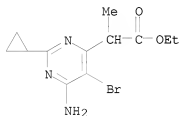
RN 858955-04-1 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- $\alpha$ -chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



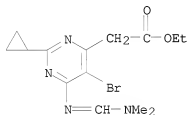
RN 858955-05-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -methyl-, ethyl ester (CA INDEX NAME)



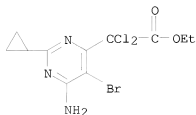
RN 858955-06-3 CAPLUS

CN 4-Pyrimidineacetic acid, 5-bromo-2-cyclopropyl-6-[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



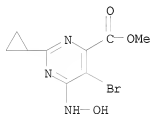
RN 858955-07-4 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- $\alpha,\alpha$ -dichloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



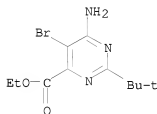
RN 858955-08-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



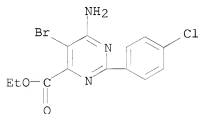
RN 858955-09-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



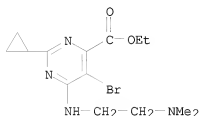
RN 858955-10-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



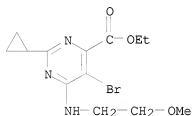
RN 858955-11-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)



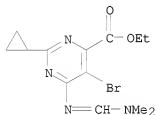
RN 858955-12-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, ethyl ester (CA INDEX NAME)



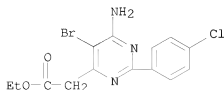
RN 858955-13-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



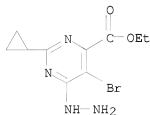
RN 858955-14-3 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



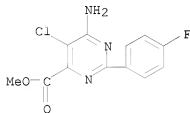
RN 858955-15-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, ethyl ester (CA INDEX NAME)



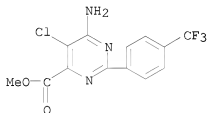
RN 858955-16-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)-, methyl ester (CA INDEX NAME)



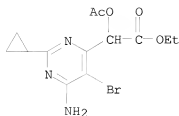
RN 858955-17-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]-, methyl ester (CA INDEX NAME)

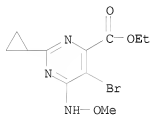


RN 858955-20-1 CAPLUS

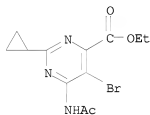
CN 4-Pyrimidineacetic acid, α-(acetyloxy)-6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



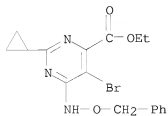
RN 858955-25-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



RN 858955-26-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

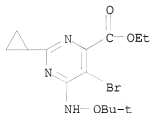


RN 858955-27-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(phenylmethoxy)amino]-, ethyl ester (CA INDEX NAME)



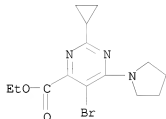
RN 858955-28-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(1,1-dimethylethoxy)amino]-, ethyl ester (CA INDEX NAME)



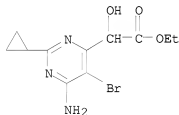
RN 858955-29-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(1-pyrrolidinyl)-, ethyl ester (CA INDEX NAME)



RN 858955-30-3 CAPLUS

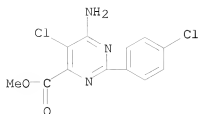
CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -hydroxy-, ethyl ester (CA INDEX NAME)



RN 858955-31-4 CAPLUS

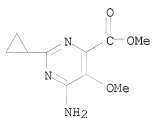
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)





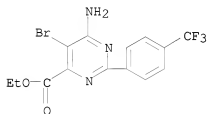
RN 858955-32-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, methyl ester (CA INDEX NAME)



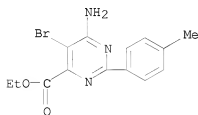
RN 858955-33-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[4-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



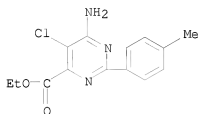
RN 858955-34-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-methylphenyl)-, ethyl ester (CA INDEX NAME)



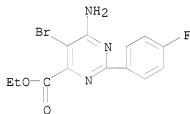
RN 858955-35-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)-, ethyl ester (CA INDEX NAME)



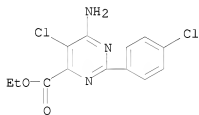
RN 858955-36-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-fluorophenyl)-, ethyl ester (CA INDEX NAME)



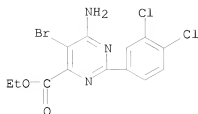
RN 858955-37-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)

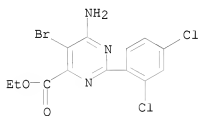


RN 858955-39-2 CAPLUS

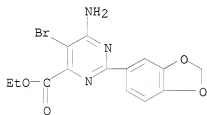
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3,4-dichlorophenyl)-, ethyl ester (CA INDEX NAME)



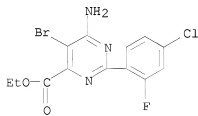
RN 858955-40-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,4-dichlorophenyl)-,  
 ethyl ester (CA INDEX NAME)



RN 858955-41-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(1,3-benzodioxol-5-yl)-5-bromo-  
 ethyl ester (CA INDEX NAME)

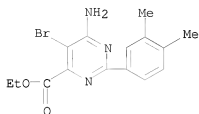


RN 858955-42-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chloro-2-fluorophenyl)-,  
 ethyl ester (CA INDEX NAME)



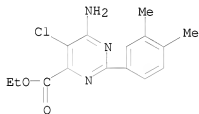
RN 858955-43-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(3,4-dimethylphenyl)-, ethyl ester (CA INDEX NAME)



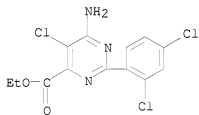
RN 858955-44-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dimethylphenyl)-, ethyl ester (CA INDEX NAME)



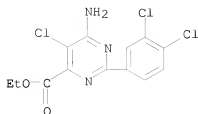
RN 858955-45-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,4-dichlorophenyl)-, ethyl ester (CA INDEX NAME)



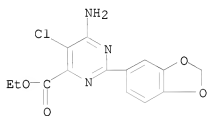
RN 858955-46-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3,4-dichlorophenyl)-, ethyl ester (CA INDEX NAME)



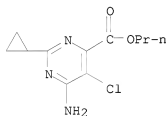
RN 858955-47-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(1,3-benzodioxol-5-yl)-5-chloro-, ethyl ester (CA INDEX NAME)



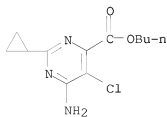
RN 858955-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



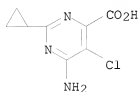
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)



RN 858955-50-7 CAPLUS

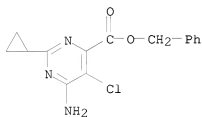
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)



● Na

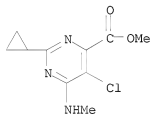
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



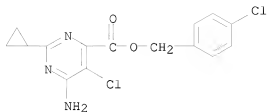
RN 858955-52-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, methyl ester (CA INDEX NAME)

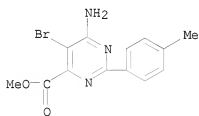


RN 858955-53-0 CAPLUS

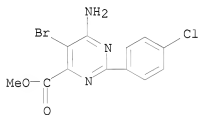
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



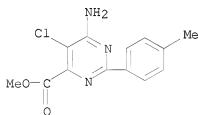
RN 858955-55-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-methylphenyl)-, methyl ester (CA INDEX NAME)



RN 858955-56-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)-, methyl ester (CA INDEX NAME)

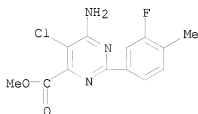


RN 858955-57-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)-, methyl ester (CA INDEX NAME)



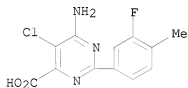
RN 858955-59-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-fluoro-4-methylphenyl)-, methyl ester (CA INDEX NAME)



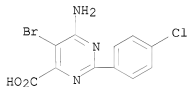
RN 858955-60-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-fluoro-4-methylphenyl)- (CA INDEX NAME)



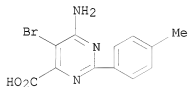
RN 858955-61-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-chlorophenyl)- (CA INDEX NAME)



RN 858955-62-1 CAPLUS

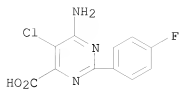
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-methylphenyl)- (CA INDEX NAME)



RN 858955-63-2 CAPLUS

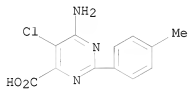
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-fluorophenyl)- (CA INDEX NAME)





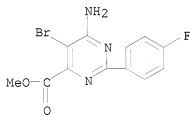
RN 858955-64-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methylphenyl)- (CA INDEX NAME)



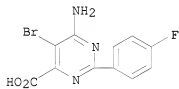
RN 858955-65-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-fluorophenyl)-, methyl ester (CA INDEX NAME)



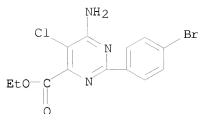
RN 858955-66-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-fluorophenyl)- (CA INDEX NAME)

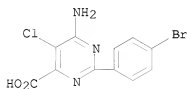


RN 858955-67-6 CAPLUS

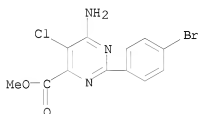
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, ethyl ester (CA INDEX NAME)



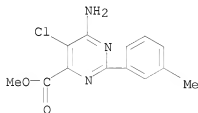
RN 858955-68-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro- (CA INDEX NAME)



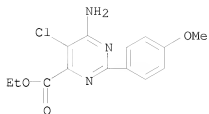
RN 858955-69-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-bromophenyl)-5-chloro-, methyl ester (CA INDEX NAME)



RN 858955-70-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-methylphenyl)-, methyl ester (CA INDEX NAME)

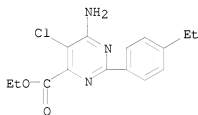


RN 858955-71-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-methoxyphenyl)-, ethyl ester (CA INDEX NAME)



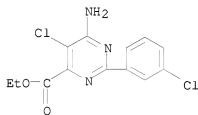
RN 858955-72-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-ethylphenyl)-, ethyl ester (CA INDEX NAME)



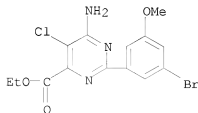
RN 858955-73-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(3-chlorophenyl)-, ethyl ester (CA INDEX NAME)

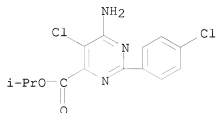


RN 858955-74-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(3-bromo-5-methoxyphenyl)-5-chloro-, ethyl ester (CA INDEX NAME)

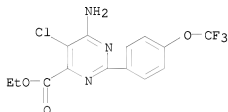


RN 858955-75-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
1-methylethyl ester (CA INDEX NAME)

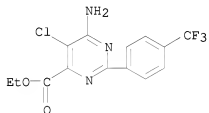
RN 858955-76-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



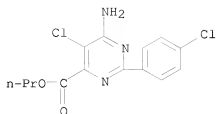
RN 858955-77-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



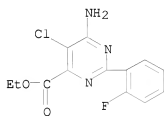
RN 858955-78-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, propyl  
ester (CA INDEX NAME)



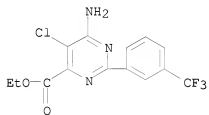
RN 858955-79-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorophenyl)-, ethyl ester (CA INDEX NAME)



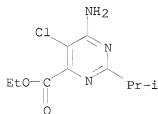
RN 858955-80-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[3-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



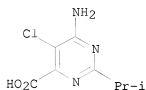
RN 858955-81-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



RN 858955-82-5 CAPLUS

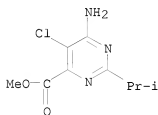
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, sodium salt (1:1) (CA INDEX NAME)



● Na

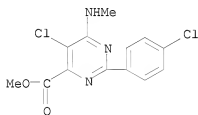
RN 858955-83-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)



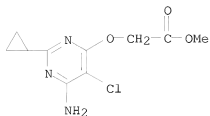
RN 858955-84-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-(4-chlorophenyl)-6-(methylamino)-, methyl ester (CA INDEX NAME)

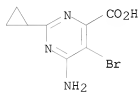


RN 858955-85-8 CAPLUS

CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, methyl ester (CA INDEX NAME)

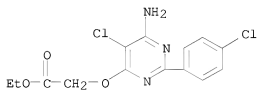


RN 858955-86-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt  
 (1:1) (CA INDEX NAME)

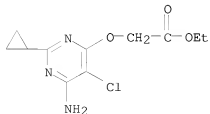


● Na

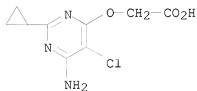
RN 858955-87-0 CAPLUS  
 CN Acetic acid, 2-[(6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinyl)oxy]-,  
 ethyl ester (CA INDEX NAME)



RN 858955-88-1 CAPLUS  
 CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, ethyl  
 ester (CA INDEX NAME)

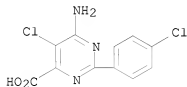


RN 858955-89-2 CAPLUS

CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-,  
sodium salt (1:1) (CA INDEX NAME)

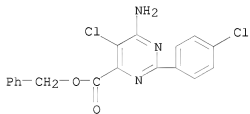
● Na

RN 858955-90-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, sodium  
salt (1:1) (CA INDEX NAME)

● Na

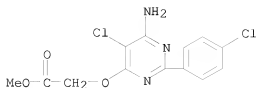
RN 858955-91-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
phenylmethyl ester (CA INDEX NAME)

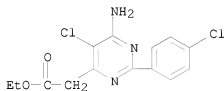
RN 858955-92-7 CAPLUS

CN Acetic acid, 2-[[6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinyl]oxy]-,  
methyl ester (CA INDEX NAME)

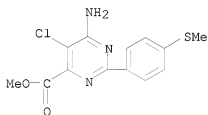




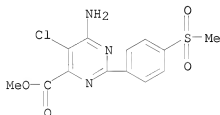
RN 858955-93-8 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-(4-chlorophenyl)-, ethyl ester  
(CA INDEX NAME)

RN 858955-94-9 CAPLUS

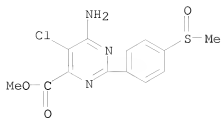
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylthio)phenyl]-,  
methyl ester (CA INDEX NAME)

RN 858955-95-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfonyl)phenyl]-,  
methyl ester (CA INDEX NAME)

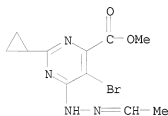
RN 858955-96-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[4-(methylsulfinyl)phenyl]-,  
methyl ester (CA INDEX NAME)



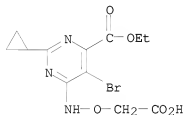
RN 858955-97-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(2-ethylidenehydrazinyl)-, methyl ester (CA INDEX NAME)



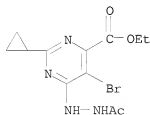
RN 858955-98-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-6-[(carboxymethoxy)amino]-2-cyclopropyl-, 4-ethyl ester (CA INDEX NAME)



RN 858955-99-4 CAPLUS

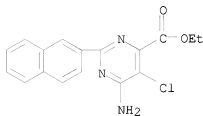
CN 4-Pyrimidinecarboxylic acid, 6-(2-acetylhydrazinyl)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



RN 858956-00-0 CAPLUS

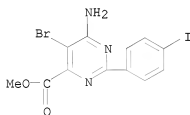
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-naphthalenyl)-, ethyl

ester (CA INDEX NAME)



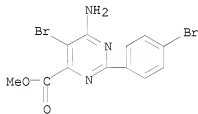
RN 858956-01-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-iodophenyl)-, methyl ester (CA INDEX NAME)



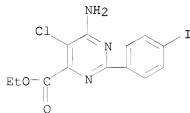
RN 858956-02-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-bromophenyl)-, methyl ester (CA INDEX NAME)

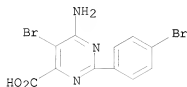


RN 858956-06-6 CAPLUS

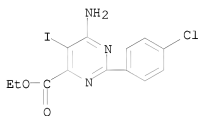
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(4-iodophenyl)-, ethyl ester (CA INDEX NAME)



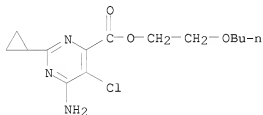
RN 858956-09-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(4-bromophenyl)- (CA INDEX NAME)



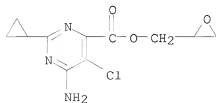
RN 858956-10-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-(4-chlorophenyl)-5-iodo-, ethyl ester (CA INDEX NAME)



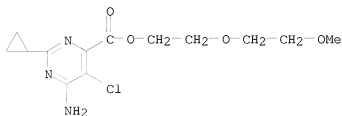
RN 858956-12-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



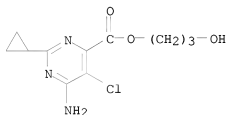
RN 858956-13-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-oxiranylmethyl ester (CA INDEX NAME)



RN 858956-14-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



RN 858956-15-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 3-hydroxypropyl ester (CA INDEX NAME)

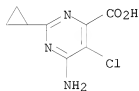


RN 858956-16-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 2-propanamine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



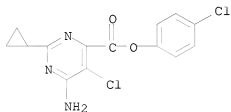
CM 2

CRN 75-31-0

CMF C3 H9 N

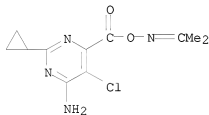


RN 858956-17-9 CAPLUS

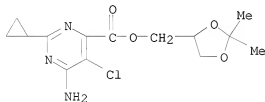
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
4-chlorophenyl ester (CA INDEX NAME)

RN 858956-18-0 CAPLUS

CN 2-Propanone, O-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)carbonyl]oxime (CA INDEX NAME)

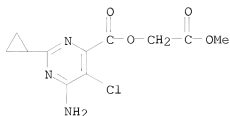


RN 858956-19-1 CAPLUS

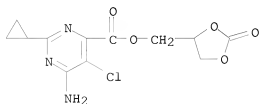
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
(2,2-dimethyl-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)

RN 858956-20-4 CAPLUS

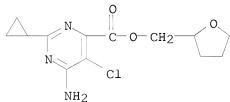
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-methoxy-2-oxoethyl ester (CA INDEX NAME)



RN 858956-21-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
(2-oxo-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)

RN 858956-22-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
(tetrahydro-2-furanyl)methyl ester (CA INDEX NAME)

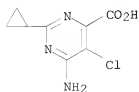
RN 858956-29-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
cyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

CRN 108-91-8

CMF C6 H13 N



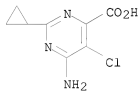
RN 858956-30-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with morpholine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

CRN 110-91-8

CMF C4 H9 N O



RN 858956-31-7 CAPLUS

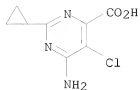
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with 2,2'-iminobis[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



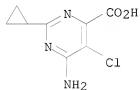


CM 2  
 CRN 111-42-2  
 CMF C4 H11 N O2



RN 858956-32-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1  
 CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2

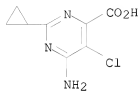


CM 2  
 CRN 121-44-8  
 CMF C6 H15 N



RN 858956-33-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 pyridine (1:1) (9CI) (CA INDEX NAME)

CM 1  
 CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2



CM 2

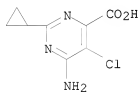
CRN 110-86-1

CMF C5 H5 N



RN 858956-34-0 CAPLUS

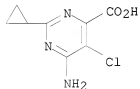
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, lithium salt (1:1) (CA INDEX NAME)



● Li

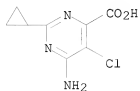
RN 858956-35-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, potassium salt (1:1) (CA INDEX NAME)



● K

RN 858956-36-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cesium salt  
 (1:1) (CA INDEX NAME)

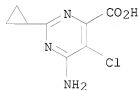


● Cs

RN 858956-40-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 2-aminoethanol (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2



CM 2

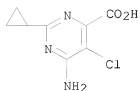
CRN 141-43-5  
 CMF C2 H7 N O

$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$

RN 858956-41-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

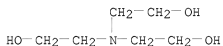
CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2



CM 2

CRN 102-71-6

CMF C6 H15 N O3



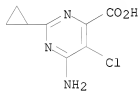
RN 858956-42-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
N-methylmethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

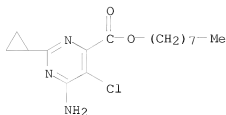
CRN 124-40-3

CMF C2 H7 N

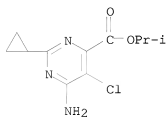


RN 858956-43-1 CAPLUS

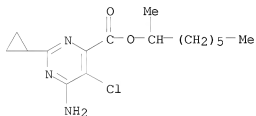
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)



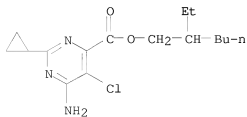
RN 858956-44-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylethyl ester (CA INDEX NAME)



RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



RN 858956-46-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
 ester (CA INDEX NAME)



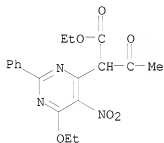
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

10/581,897

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1980:41984 CAPLUS  
 DN 92:41984  
 OREF 92:7009a,7012a  
 TI 2-Phenyl-4-hydroxy-6-methylpyrrolo[3,2-d]pyrimidine  
 IN Sokolova, V. N.; Novitskii, K. Yu.  
 PA Ordzhonikidze, S., All-Union Scientific-Research Chemical-Pharmaceutical  
 Institute, USSR  
 SO U.S.S.R.  
 From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1979, (37), 90.  
 CODEN: URXXAF  
 DT Patent  
 LA Russian  
 FAN.CNT 1

|      | PATENT NO.   | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|--|--|----------|-----------------|----------|
| PI   | SU 690016  | A1   | 19791005 | SU 1977-2521258 | 19770803 |
| PRAI | SU 1977-2521258  | A  | 19770803 |                 |          |
| AB   | Title compound was prepared by reacting<br>2-phenyl-4-ethoxy-5-nitro-6-[1-(ethoxycarbonyl)-2-oxopropyl]pyrimidine<br>with Zn in HOAc at 60-90° followed by refluxing the resulting<br>2-phenyl-4-ethoxy-6-methyl-7-(ethoxycarbonyl)pyrrolo[3,2-d]pyrimidine with<br>HCl. |  |          |                 |          |
| IT   | 72168-65-1   | RL: RCT (Reactant); RACT (Reactant or reagent)<br>(reductive cyclization of) |          |                 |          |
| RN   | 72168-65-1 CAPLUS  |  |          |                 |          |
| CN   | 4-Pyrimidineacetic acid, $\alpha$ -acetyl-6-ethoxy-5-nitro-2-phenyl-, ethyl<br>ester (CA INDEX NAME)   |  |          |                 |          |



Compound according to claim 1 may have a -OEt at the 5-position and -NO<sub>2</sub> at the 6-position.  
 A 103 rejection (positional isomers) can NOT be made because the reference compound is  
 disclosed as a starting reagent to prepare pyrrolo[3,2-d]pyrimidines. No other utility is found  
 in the reference. In re Lahu.

L10 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1980:15521 CAPLUS

DN 92:15521

OREF 92:2575a,2578a

TI Study of pyrrolo[3,2-d]pyrimidine. III

AU Sokolova, V. N.; Modnikova, G. A.; Novitskii, K. Yu.; Kravchenko, A. I.; Chernov, V. A.; Shcherbakova, L. I.; Pershin, G. N.

CS Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR

SO Khimiko-Farmatsevticheskii Zhurnal (1979), 13(9), 17-22

CODEN: KHFZAN; ISSN: 0023-1134

DT Journal

LA Russian

OS CASREACT 92:15521

AB 2-Phenyl-4-mercapto-6-methylpyrrolo[3,2-d]pyrimidine (I) [72168-74-2] inhibited growth of *Lactobacillus casei* in vitro at 1-10 µg/mL and of *Mycobacterium tuberculosis* at 4 µg/mL. In expts. in vivo, I was active against sarcoma in mice and rats, but not against leukemia in mice. The other 6 4-alkylamino-2-phenyl-6-methylpyrrolo[3,2-d]pyrimidines and 11 4-alkyl(aralkyl)thio-2-phenyl-6-methylpyrrolo[3,2-d]pyrimidines prepared and tested showed no antibacterial activity, with the exception of 4-isobutylamino-2-phenyl-6-methylpyrrolo[3,2-d]pyrimidine [72168-70-8] which was weakly active.

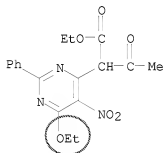
IT 72168-65-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 72168-65-1 CAPLUS

CN 4-Pyrimidineacetic acid, α-acetyl-6-ethoxy-5-nitro-2-phenyl-, ethyl ester (CA INDEX NAME)



IT 72176-36-4P

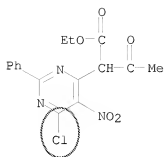
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ethoxylation of)

RN 72176-36-4 CAPLUS

CN 4-Pyrimidineacetic acid, α-acetyl-6-chloro-5-nitro-2-phenyl-, ethyl ester (CA INDEX NAME)





L10 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1979:420462 CAPLUS

DN 91:20462

OREF 91:3425a,3428a

TI Synthesis of 1,2,4-oxadiazines and their rearrangement to pyrimidines

AU Santilli, Arthur A.; Scotese, Anthony C.

CS Res. Dev. Div., Wyeth Lab., Inc., Radnor, PA, 19087, USA

SO Journal of Heterocyclic Chemistry (1979), 16(2), 213-16

CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

LA English

OS CASREACT 91:20462

AB Several amide oximes underwent condensation reactions with MeO2CC.tplbond.CC02Me to give 1:1 adducts. Under basic conditions, these adducts underwent ring closure to give several Me [3-(substituted)-4,5-dihydro-5-oxo-6H-1,2,4-oxadiazin-6-ylidene]acetates, e.g. 1. The reactions of these compds. with a variety of amines resulted in addition-rearrangement reactions with the formation of the corresponding Me 2-substituted-5-substituted amino-1,6-dihydro-6-oxo-4-pyrimidinecarboxylates.

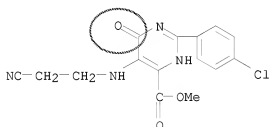
IT 70274-26-9P 70274-27-0P 70274-28-1P

70274-29-2P 70472-25-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

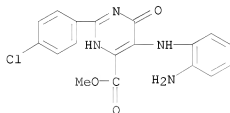
RN 70274-26-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 2-(4-chlorophenyl)-5-[(2-cyanoethyl)amino]-1,6-dihydro-6-oxo-, methyl ester (CA INDEX NAME)



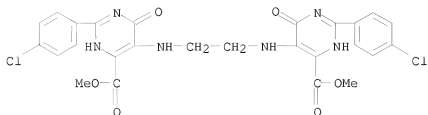
RN 70274-27-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-[(2-aminophenyl)amino]-2-(4-chlorophenyl)-1,6-dihydro-6-oxo-, methyl ester (CA INDEX NAME)



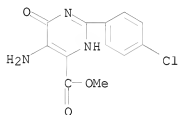
RN 70274-28-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5,5'-(1,2-ethanediylidimino)bis[2-(4-chlorophenyl)-1,6-dihydro-6-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



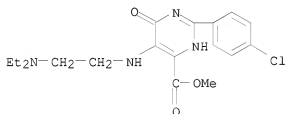
RN 70274-29-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-amino-2-(4-chlorophenyl)-1,6-dihydro-6-oxo-, methyl ester (CA INDEX NAME)



RN 70472-25-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 2-(4-chlorophenyl)-5-[[2-(diethylamino)ethyl]amino]-1,6-dihydro-6-oxo-, methyl ester (CA INDEX NAME)



L10 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1969:449899 CAPLUS

DN 71:49899

OREF 71:9173a,9176a

TI Heterocyclic studies. VIII. 2-Phenylpteridine and some related compounds

AU Clark, Jim; Murdoch, P. N. T.; Roberts, D. L.

CS Univ. Salford, Salford, UK

SO Journal of the Chemical Society [Section] C: Organic (1969), (10), 1408-12

CODEN: JSOOAX; ISSN: 0022-4952

DT Journal

LA English

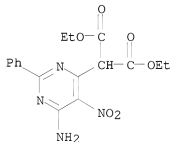
AB Syntheses of 2-phenylpteridine (I) and its 4- and 7-monomethyl, 4,7- and 6,7-dimethyl, and 4,6,7-trimethyl derivs. are described. Oxidation of 2-phenyl-, 7-methyl-2-phenyl-, and 6,7-dimethyl-2-phenylpteridines with H2O2 in acetic acid gave the corresponding 4-hydroxy derivs. Further oxidation of 4-hydroxy-2-phenylpteridine gave 4,6,7-trihydroxy-2-phenylpteridine. In acid solution, 2-phenylpteridine gave a mixture of 3,4-monohydrated and 5,6,7,8-dihydrated cations which rapidly changed to a solution almost free of the monohydrate. 4-Methyl- and 4,7-dimethyl-2-phenylpteridines also gave essentially all 5,6,7,8-dihydrated cations but mainly 3,4-hydrated species were present in the equilibrium mixts. of cations formed from 7-methyl- and 6,7-dimethyl-2-phenylpteridine. 1H N.M.R. and uv spectra and pKa values are recorded.

IT 23124-05-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 23124-05-2 CAPLUS

CN Propanedioic acid, 2-(6-amino-5-nitro-2-phenyl-4-pyrimidinyl)-,  
1,3-diethyl ester (CA INDEX NAME)



proviso (f)

10/581,897

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

80.46

268.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-11.48

-11.48

STN INTERNATIONAL LOGOFF AT 18:36:15 ON 16 FEB 2009

chain nodes :  
 16 23 27 30 32 33 34 35 36 37 38 39 41 42 56  
 ring nodes :  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 43 44 45 46 47  
 ring/chain nodes :  
 24  
 chain bonds :  
 2-23 4-56 32-33 34-35 34-36 37-38 39-41 39-42  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-15 14-15 43-44  
 43-47 44-45 45-46 46-47  
 exact/norm bonds :  
 2-23 4-56 34-35 34-36 37-38 39-41 39-42  
 exact bonds :  
 13-14 13-15 14-15 32-33 43-44 43-47 44-45 45-46 46-47  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12  
 isolated ring systems :  
 containing 1 : 13 : 43 :

G1:[\*1],[\*2],[\*3]

G2:NO2,[\*4]

G3:CN,NO2,O,S,N,Cl,Br,F,I

G4:O,S

G5:CHO,[\*5],[\*6],[\*7],[\*8],[\*9]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 23:CLASS 24:CLASS 27:CLASS 28:Atom 30:CLASS  
 31:Atom 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS  
 41:CLASS

42:CLASS 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 56:CLASS  
Generic attributes :  
16:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7  
Element Count :  
Node 16: Limited  
C,C2-4

10/581,897

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

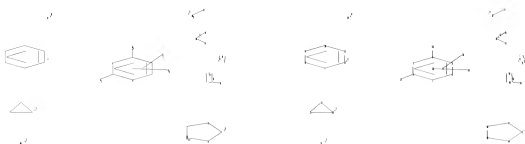
=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (claim 2).str





```

chain nodes :
16 23 27 30 32 33 34 35 36 37 38 39 41 42 56
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 43 44 45 46 47
ring/chain nodes :
24
chain bonds :
2-23 4-56 32-33 34-35 34-36 37-38 39-41 39-42

```

```

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-15
14-15 43-44 43-47 44-45 45-46 46-47
exact/norm bonds :
2-23 4-56 34-35 34-36 37-38 39-41 39-42
exact bonds :
13-14 13-15 14-15 32-33 43-44 43-47 44-45 45-46 46-47
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 13 : 43 :

```

G1:[\*1],[\*2],[\*3]

G2:NO2,[\*4]

G3:CN,NO2,O,S,N,Cl,Br,F,I

G4:O,S

G5:CHO,[\*5],[\*6],[\*7],[\*8],[\*9]

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 23:CLASS 24:CLASS 27:CLASS
28:Atom 30:CLASS 31:Atom 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:Atom 39:CLASS 41:CLASS 42:CLASS 43:Atom 44:Atom 45:Atom
46:Atom 47:Atom 56:CLASS
Generic attributes :
16:
Saturation : Saturated
Number of Carbon Atoms : less than 7

Element Count :
Node 16: Limited
C,C2-4

```

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d 13

L3 HAS NO ANSWERS

L1 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

L3                    QUE L2 NOT L1

=> s 13 sss sam

SAMPLE SEARCH INITIATED 10:34:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -        2594 TO ITERATE

77.1% PROCESSED        2000 ITERATIONS                    3 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*

PROJECTED ITERATIONS:        48825 TO        54935

PROJECTED ANSWERS:                3 TO        195

L4                    3 SEA SSS SAM L2 NOT L1

=> => s 13 sss ful

FULL SEARCH INITIATED 10:34:27 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -        53963 TO ITERATE

100.0% PROCESSED        53963 ITERATIONS                    93 ANSWERS  
SEARCH TIME: 00.00.02

L5                    93 SEA SSS FUL L2 NOT L1

=> => s 15

L6                    5 L5

=> d 16 1-5 bib,ab,hitstr

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2008:530173 CAPLUS  
 DN 148:517742  
 TI Heteroaryl compounds, compositions thereof, preparation and use thereof as protein kinase inhibitors  
 IN Mortensen, Deborah Sue; Mederos, Maria Mercedes Delgado; Sapienza, John Joseph; Albers, Ronald J.; Lee, Branden G.; Huang, Dehua; Schwarz, Kimberly Lyn; Parnes, Jason Simon; Riggs, Jennifer R.; Papa, Patrick William  
 PA Signal Pharmaceuticals, LLC, USA  
 SO PCT Int. Appl., 244pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

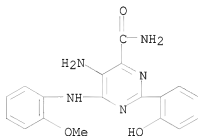
|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 2008051494   | A1   | 20080502 | WO 2007-US22375 | 20071018 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |      |          |                 |          |
|      | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  |      |          |                 |          |
|      | US 20090042890  | A1   | 20090212 | US 2007-975657  | 20071018 |
| PRAI | US 2006-853135P   | P    | 20061019 |                 |          |
| OS   | MARPAT 148:517742   |      |          |                 |          |

AB Provided herein are heteroaryl compds. having the following structure I, comprising an effective amount of a heteroaryl compound and methods for treating or preventing cancer, inflammatory conditions, immunol. conditions, metabolic conditions and conditions treatable or preventable by inhibition of a kinase pathway comprising administering an effective amount of a heteroaryl compound to a patient in need thereof. Compds. of formula I wherein X-A-B-Y taken together to form NR<sub>2</sub>CH<sub>2</sub>CONH, NR<sub>2</sub>COCH<sub>2</sub>NH, CR<sub>2</sub>CONH, NR<sub>2</sub>C=N, and CR<sub>2</sub>=CHNH; L is a bond, NH and O; R<sub>1</sub> and R<sub>2</sub> are independently (un)substituted C1-8 alkyl, (un)substituted (hetero)aryl and (un)substituted (hetero)cycloalkyl; R<sub>3</sub> and R<sub>4</sub> are independently H, C1-8 alkyl; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by cyclization of (Z)-1-(2-amino-1,2-dicyanovinyl)-3-(2-methoxyphenyl)urea with quinoline-5-carboxaldehyde. All the invention compds. were evaluated for their protein kinase inhibitory activity. From the assay, it was determined that compound II exhibited IC<sub>50</sub> values of 0.1-5  $\mu$ M against mTOR and 20.1-30  $\mu$ M against IKK-2.

IT 1022157-79-4P  
 RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of heteroaryl compds. useful in treatment and prevention of diseases)

RN 1022157-79-4 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 5-amino-2-(2-hydroxyphenyl)-6-[(2-

methoxyphenyl)amino]- (CA INDEX NAME)



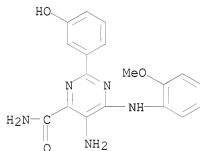
IT 1022157-44-3P 1022158-73-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of heteroaryl compds. useful in treatment and prevention of diseases)

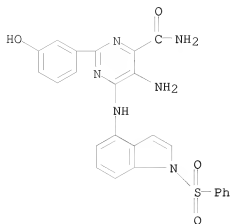
RN 1022157-44-3 CAPLUS

CN 4-Pyrimidinecarboxamide, 5-amino-2-(3-hydroxyphenyl)-6-[(2-methoxyphenyl)amino]- (CA INDEX NAME)



RN 1022158-73-1 CAPLUS

CN 4-Pyrimidinecarboxamide, 5-amino-2-(3-hydroxyphenyl)-6-[[1-(phenylsulfonyl)-1H-indol-4-yl]amino]- (CA INDEX NAME)

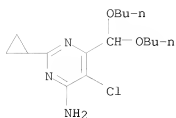


RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2006:1226934 CAPLUS  
 DN 146:7979  
 TI Method for preparing substituted pyrimidines  
 IN Annis, Gary David  
 PA E. I. Du Pont De Nemours and Company, USA  
 SO PCI Int. Appl., 26pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

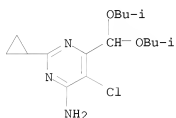
common assignee

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE     |
|--|------|----------|------------------|----------|
| PI WO 2006124657   | A1   | 20061123 | WO 2006-US18522  | 20060512 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  |      |          |                  |          |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM   |      |          |                  |          |
| AU 2006247581  | A1   | 20061123 | AU 2006-247581   | 20060512 |
| EP 1888536   | A1   | 20080220 | EP 2006-759727   | 20060512 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  |      |          |                  |          |
| JP 2008540655  | T    | 20081120 | JP 2008-512374   | 20060512 |
| IN 2007DN08216   | A    | 20071123 | IN 2007-DN8216   | 20071024 |
| CN 101175730   | A    | 20080507 | CN 2006-80016942 | 20071116 |
| KR 2008016640  | A    | 20080221 | KR 2007-729280   | 20071214 |
| PRAI US 2005-681298P   | P    | 20050516 |                  |          |
| WO 2006-US18522  | W    | 20060512 |                  |          |
| OS CASREACT 146:7979; MARPAT 146:7979  |      |          |                  |          |
| AB The invention relates to a method for preparing a ester I [R1 = cyclopropyl, 4-chlorophenyl or 4-bromophenyl; R2 = alkyl] comprising contacting acetal II with a persulfate oxidant in the presence of a strong sulfur- or phosphorus-containing mineral acid such as sulfuric acid and an oxidation resistant solvent. Thus, reacting 5-chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine with ammonium persulfate in the presence of sulfuric acid in acetonitrile afforded 55% Et 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate. |      |          |                  |          |
| IT 1042146-19-9 1042146-20-2 1042146-21-3 1042146-22-4 1042146-23-5 1042146-24-6 1042146-25-7 1042146-31-5 1042146-35-9 1042146-37-1 1042146-39-3 1042146-96-2 1042146-97-3 1042146-98-4   |      |          |                  |          |
| RL: PRPH (Prophetic)   |      |          |                  |          |
| (Method for preparing substituted pyrimidines)   |      |          |                  |          |
| RN 1042146-19-9 CAPLUS   |      |          |                  |          |
| CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dibutoxymethyl)- (CA INDEX NAME)  |      |          |                  |          |



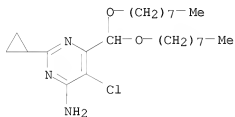
RN 1042146-20-2 CAPLUS

CN 4-Pyrimidinamine, 6-[bis(2-methylpropoxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)



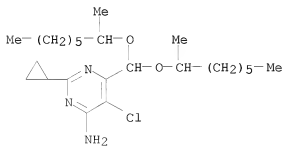
RN 1042146-21-3 CAPLUS

CN 4-Pyrimidinamine, 6-[bis(octyloxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RN 1042146-22-4 CAPLUS

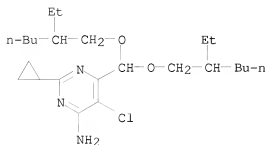
CN INDEX NAME NOT YET ASSIGNED



RN 1042146-23-5 CAPLUS

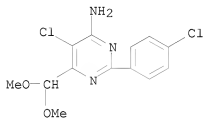


CN 4-Pyrimidinamine, 6-[bis[(2-ethylhexyl)oxy)methyl]-5-chloro-2-cyclopropyl-  
(CA INDEX NAME)



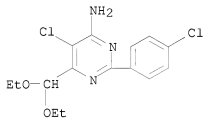
RN 1042146-24-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-(4-chlorophenyl)-6-(dimethoxymethyl)- (CA  
INDEX NAME)



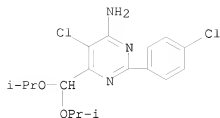
RN 1042146-25-7 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-(4-chlorophenyl)-6-(diethoxymethyl)- (CA  
INDEX NAME)

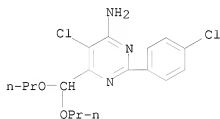


RN 1042146-31-5 CAPLUS

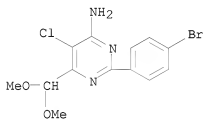
CN 4-Pyrimidinamine, 6-[bis(1-methylethoxy)methyl]-5-chloro-2-(4-  
chlorophenyl)- (CA INDEX NAME)



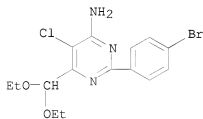
RN 1042146-35-9 CAPLUS  
 CN 4-Pyrimidinamine, 5-chloro-2-(4-chlorophenyl)-6-(dipropoxymethyl)- (CA  
 INDEX NAME)



RN 1042146-37-1 CAPLUS  
 CN 4-Pyrimidinamine, 2-(4-bromophenyl)-5-chloro-6-(dimethoxymethyl)- (CA  
 INDEX NAME)

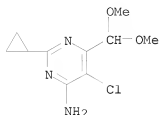


RN 1042146-39-3 CAPLUS  
 CN 4-Pyrimidinamine, 2-(4-bromophenyl)-5-chloro-6-(diethoxymethyl)- (CA  
 INDEX NAME)



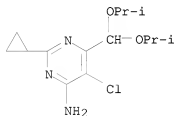
RN 1042146-96-2 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dimethoxymethyl)- (CA INDEX NAME)



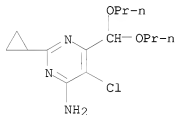
RN 1042146-97-3 CAPLUS

CN 4-Pyrimidinamine, 6-[bis(1-methylethoxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RN 1042146-98-4 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dipropoxymethyl)- (CA INDEX NAME)

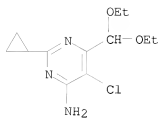


IT 915710-66-6P, 5-Chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (method for preparing substituted pyrimidines)

RN 915710-66-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX NAME)



RE.CNT 4      THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:612265 CAPLUS  
 DN 143:133387  
 TI Preparation of herbicidal pyrimidines  
 IN Clark, David Alan; Finkelstein, Bruce Lawrence; Armel, Gregory Russell;  
 Wittenbach, Vernon Arie  
 PA E. I. Dupont de Nemours and Company, USA  
 SO PCT Int. Appl., 151 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

Applicant's

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---|------|----------|------------------|----------|
| PI   | WO 2005063721   | A1   | 20050714 | WO 2004-US42302  | 20041216 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                  |          |
|      | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
|      | AU 2004309325   | A1   | 20050714 | AU 2004-309325   | 20041216 |
|      | CA 2548058  | A1   | 20050714 | CA 2004-2548058  | 20041216 |
|      | EP 1694651  | A1   | 20060830 | EP 2004-814481   | 20041216 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS   |      |          |                  |          |
|      | CN 1894220  | A    | 20070110 | CN 2004-80037819 | 20041216 |
|      | BR 2004017279   | A    | 20070313 | BR 2004-17279    | 20041216 |
|      | JP 2007534649   | T    | 20071129 | JP 2006-545441   | 20041216 |
|      | IN 2006DN03045  | A    | 20070803 | IN 2006-DN03045  | 20060526 |
|      | US 20070197391  | A1   | 20070823 | US 2006-581897   | 20060605 |
|      | KR 2006114345   | A    | 20061106 | KR 2006-712063   | 20060616 |
|      | MX 2006007033   | A    | 20060831 | MX 2006-7033     | 20060619 |
| PRAI | US 2003-531300P   | P    | 20031219 |                  |          |
|      | US 2004-598397P   | P    | 20040803 |                  |          |
|      | WO 2004-US42302   | W    | 20041216 |                  |          |

OS CASREACT 143:133387; MARPAT 143:133387

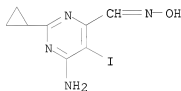
AB The title compds. I [R1 = (un)substituted cyclopropyl, iso-Pr, or Ph; R2 = ((O)jC(R15)(R16))kR; R = CO2H or a herbicidally effective derivative of CO2H; R3 = halo, CN, NO2, OR20, SR21 or N(R22)R23; R4 = N(R24)R25 or NO2; j = 0-1; k = 0-1; provided that when k = 0, then j = 0; R15, R16 = H, halo, alkyl, etc.; R20, R21 = H, alkyl, haloalkyl; R22, R23 = H, alkyl; R24 = H, alkyl, alkenyl, etc.; R25 = H, alkyl, C(OR33); R33 = H, alkyl, haloalkyl, etc.; or R24 and R25 are taken together as a radical selected from (CH2)4, (CH2)5, etc.] which are useful for controlling undesired vegetation, were prepared E.g., a multi-step synthesis of Et 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (II) and Me 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (III), starting from Et 4,4-diethoxy-3-oxobutanoate and cyclopropanecarboximidamide monohydrochloride, was given. The compound II showed complete control against Pigweed at 500g ai/ha in postemergence test. Also disclosed are

comps. comprising the comps. I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound I. Also disclosed are comps. comprising a compound I and at least one addnl. active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

IT 1045226-82-1 1045226-83-2 1045226-85-4  
 1045227-03-9 1045227-04-0 1045227-14-2  
 1045227-22-2 1045227-23-3 1045227-43-7  
 1045227-48-2 1045227-65-3 1045227-71-1  
 1045227-73-3 1045227-90-4 1045228-07-6  
 1045229-02-4 1045229-04-6 1045229-06-8  
 1045229-58-0 1045229-61-5 1045229-65-9  
 1045229-66-0 1045229-68-2 1045229-78-4  
 1045229-85-3 1045229-86-4 1045230-19-0  
 1045230-22-5 1045230-23-6 1045230-43-0  
 1045230-46-3 1045232-43-6 1045232-50-5  
 1045232-51-6 1045232-61-8 1045232-62-9  
 1045232-64-1 1045232-79-8 1045232-99-2  
 1045233-03-1 1045233-04-2 1045233-07-5  
 1045233-90-6 1045233-96-2 1045233-98-4  
 1045234-08-9 1045234-10-3 1045234-15-8  
 1045234-16-9 1045234-17-0 1045234-70-5  
 1045234-71-6 1045234-75-0 1045234-77-2  
 RL: PRPH (Prophetic)  
 (Preparation of herbicidal pyrimidines)

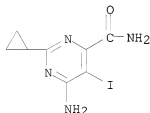
RN 1045226-82-1 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo-, oxime (CA INDEX NAME)



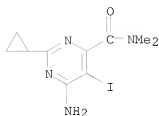
RN 1045226-83-2 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



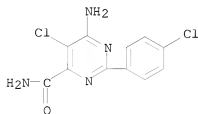
RN 1045226-85-4 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo-N,N-dimethyl- (CA INDEX NAME)



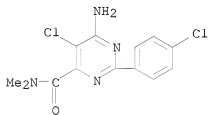
RN 1045227-03-9 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



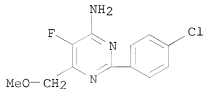
RN 1045227-04-0 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-(4-chlorophenyl)-N,N-dimethyl- (CA INDEX NAME)



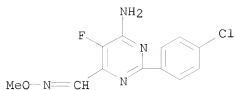
RN 1045227-14-2 CAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-5-fluoro-6-(methoxymethyl)- (CA INDEX NAME)

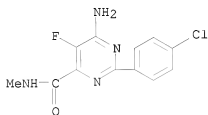


RN 1045227-22-2 CAPLUS

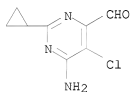
CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-(4-chlorophenyl)-5-fluoro-, O-methyl- (CA INDEX NAME)



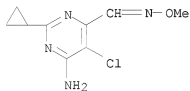
RN 1045227-23-3 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-(4-chlorophenyl)-5-fluoro-N-methyl-  
(CA INDEX NAME)

RN 1045227-43-7 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)

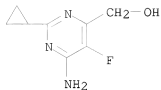
RN 1045227-48-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl-, O-methyloxime  
(CA INDEX NAME)

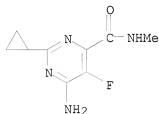
RN 1045227-65-3 CAPLUS

CN 4-Pyrimidinemethanol, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)

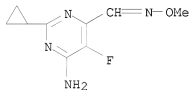




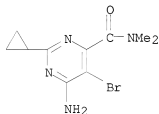
RN 1045227-71-1 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro-N-methyl- (CA INDEX NAME)



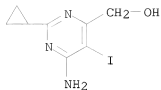
RN 1045227-73-3 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro-, O-methyloxime (CA INDEX NAME)



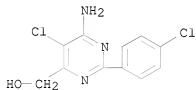
RN 1045227-90-4 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N,N-dimethyl- (CA INDEX NAME)



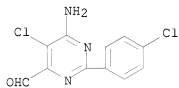
RN 1045228-07-6 CAPLUS  
 CN 4-Pyrimidinethanol, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



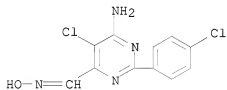
RN 1045229-02-4 CAPLUS  
 CN 4-Pyrimidinemethanol, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



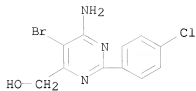
RN 1045229-04-6 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-(4-chlorophenyl)- (CA INDEX NAME)



RN 1045229-06-8 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-(4-chlorophenyl)-, oxime (CA INDEX NAME)

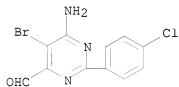


RN 1045229-58-0 CAPLUS  
 CN 4-Pyrimidinemethanol, 6-amino-5-bromo-2-(4-chlorophenyl)- (CA INDEX NAME)



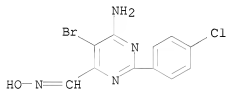
RN 1045229-61-5 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-(4-chlorophenyl)- (CA INDEX NAME)



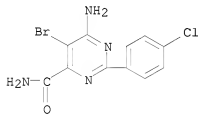
RN 1045229-65-9 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-(4-chlorophenyl)-, oxime (CA INDEX NAME)



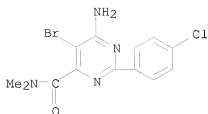
RN 1045229-66-0 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-(4-chlorophenyl)- (CA INDEX NAME)



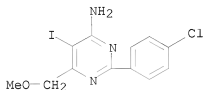
RN 1045229-68-2 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-(4-chlorophenyl)-N,N-dimethyl- (CA INDEX NAME)



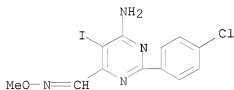
RN 1045229-78-4 CAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)



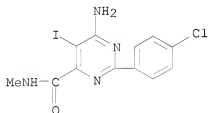
RN 1045229-85-3 CAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)



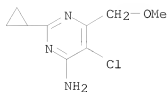
RN 1045229-86-4 CAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-5-iodo-N-methyl- (CA INDEX NAME)



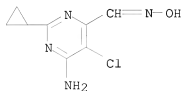
RN 1045230-19-0 CAPLUS

CN 4-Pyrimidinamine, 2-(4-chlorophenyl)-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)



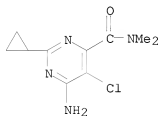
RN 1045230-22-5 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl-, oxime (CA INDEX NAME)



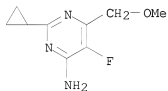
RN 1045230-23-6 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N,N-dimethyl- (CA INDEX NAME)



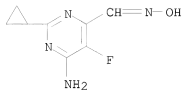
RN 1045230-43-0 CAPLUS

CN 4-Pyrimidinamine, 2-cyclopropyl-5-fluoro-6-(methoxymethyl)- (CA INDEX NAME)



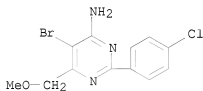
RN 1045230-46-3 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro-, oxime (CA INDEX NAME)



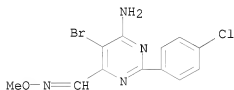
RN 1045232-43-6 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-2-(4-chlorophenyl)-6-(methoxymethyl)- (CA INDEX NAME)



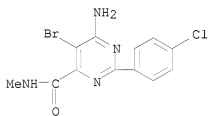
RN 1045232-50-5 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-(4-chlorophenyl)-, O-methyloxime (CA INDEX NAME)



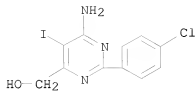
RN 1045232-51-6 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-(4-chlorophenyl)-N-methyl- (CA INDEX NAME)



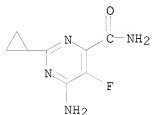
RN 1045232-61-8 CAPLUS

CN 4-Pyrimidinethanol, 6-amino-2-(4-chlorophenyl)-5-iodo- (CA INDEX NAME)



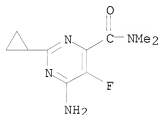
RN 1045232-62-9 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



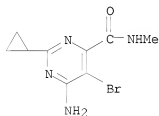
RN 1045232-64-1 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro-N,N-dimethyl- (CA INDEX NAME)



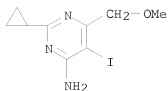
RN 1045232-79-8 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N-methyl- (CA INDEX NAME)



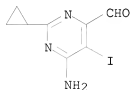
RN 1045232-99-2 CAPLUS

CN 4-Pyrimidinamine, 2-cyclopropyl-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)

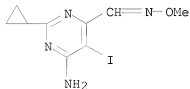


RN 1045233-03-1 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)

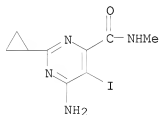


RN 1045233-04-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo-, O-methoxime  
(CA INDEX NAME)

RN 1045233-07-5 CAPLUS

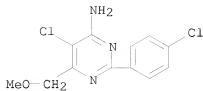
CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo-N-methyl- (CA INDEX NAME)



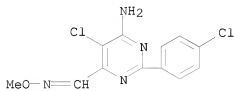
RN 1045233-90-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-(4-chlorophenyl)-6-(methoxymethyl)- (CA INDEX NAME)

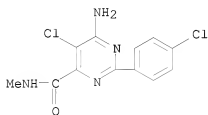




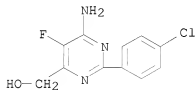
RN 1045233-96-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-(4-chlorophenyl)-,  
O-methyloxime (CA INDEX NAME)

RN 1045233-98-4 CAPLUS

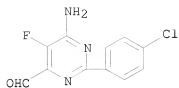
CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-(4-chlorophenyl)-N-methyl-  
(CA INDEX NAME)

RN 1045234-08-9 CAPLUS

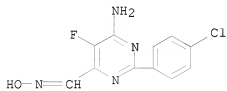
CN 4-Pyrimidinemethanol, 6-amino-2-(4-chlorophenyl)-5-fluoro- (CA INDEX  
NAME)

RN 1045234-10-3 CAPLUS

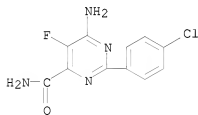
CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-(4-chlorophenyl)-5-fluoro- (CA  
INDEX NAME)



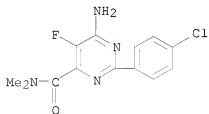
RN 1045234-15-8 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-(4-chlorophenyl)-5-fluoro-, oxime  
(CA INDEX NAME)

RN 1045234-16-9 CAPLUS

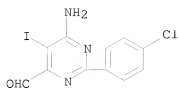
CN 4-Pyrimidinecarboxamide, 6-amino-2-(4-chlorophenyl)-5-fluoro- (CA INDEX  
NAME)

RN 1045234-17-0 CAPLUS

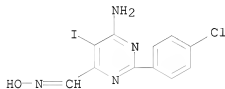
CN 4-Pyrimidinecarboxamide, 6-amino-2-(4-chlorophenyl)-5-fluoro-N,N-dimethyl-  
(CA INDEX NAME)

RN 1045234-70-5 CAPLUS

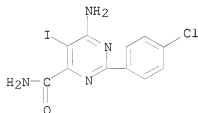
CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-(4-chlorophenyl)-5-iodo- (CA INDEX  
NAME)



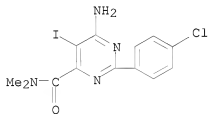
RN 1045234-71-6 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-(4-chlorophenyl)-5-iodo-, oxime (CA INDEX NAME)



RN 1045234-75-0 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-2-(4-chlorophenyl)-5-iodo- (CA INDEX NAME)



RN 1045234-77-2 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-2-(4-chlorophenyl)-5-iodo-N,N-dimethyl- (CA INDEX NAME)



IT 858954-85-5P 858954-94-6P 858954-95-7P  
 858954-98-0P 858955-00-7P 858955-01-8P  
 858955-18-7P 858955-19-8P 858955-21-2P  
 858955-22-3P 858955-23-4P 858955-24-5P  
 858955-54-1P 858955-58-5P 858956-03-3P  
 858956-04-4P 858956-05-5P 858956-07-7P

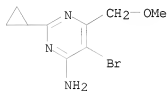
858956-11-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of herbicidal pyrimidines)

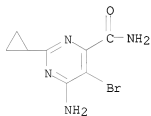
RN 858954-85-5 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(methoxymethyl)- (CA INDEX NAME)



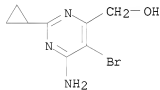
RN 858954-94-6 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



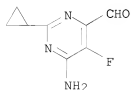
RN 858954-95-7 CAPLUS

CN 4-Pyrimidinemethanol, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



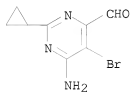
RN 858954-98-0 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



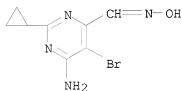
RN 858955-00-7 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



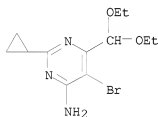
RN 858955-01-8 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, oxime (CA INDEX NAME)



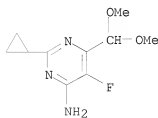
RN 858955-18-7 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX NAME)



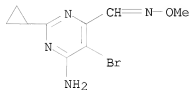
RN 858955-19-8 CAPLUS

CN 4-Pyrimidinamine, 2-cyclopropyl-6-(dimethoxymethyl)-5-fluoro- (CA INDEX NAME)



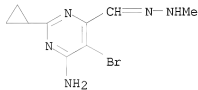
RN 858955-21-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, O-methyloxime  
(CA INDEX NAME)



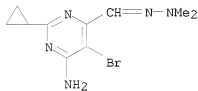
RN 858955-22-3 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-,  
2-methylhydrazone (CA INDEX NAME)



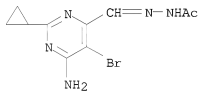
RN 858955-23-4 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-,  
2,2-dimethylhydrazone (CA INDEX NAME)



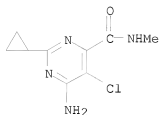
RN 858955-24-5 CAPLUS

CN Acetic acid, 2-[(6-amino-5-bromo-2-cyclopropyl-4-  
pyrimidinyl)methylene]hydrazide (CA INDEX NAME)

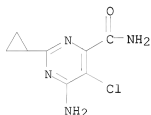


RN 858955-54-1 CAPLUS

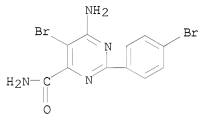
CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-methyl- (CA  
INDEX NAME)



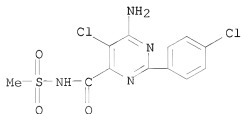
RN 858955-58-5 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RN 858956-03-3 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-(4-bromophenyl)- (CA INDEX NAME)

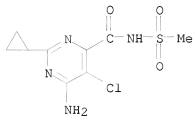


RN 858956-04-4 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-(4-chlorophenyl)-N-(methylsulfonyl)- (CA INDEX NAME)



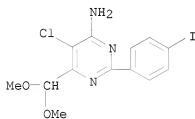
RN 858956-05-5 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-(methylsulfonyl)-

(CA INDEX NAME)



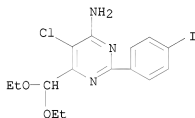
RN 858956-07-7 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-(dimethoxymethyl)-2-(4-iodophenyl)- (CA INDEX NAME)



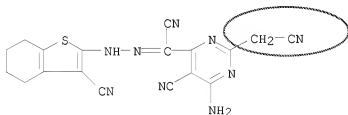
RN 858956-11-3 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-(diethoxymethyl)-2-(4-iodophenyl)- (CA INDEX NAME)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

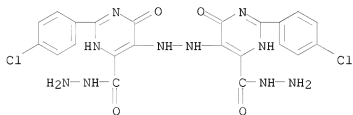


L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2002:266485 CAPLUS  
 DN 137:169474  
 TI Uses of 2-diazo-4,5,6,7-tetrahydrobenzo[b]thiophene derivatives in the synthesis of azoles, azines, and their fused derivatives  
 AU Wardakhan, Wagnat W.; Fleita, Daisy H.  
 CS Department of Chemistry, University of California, Berkeley, CA, 94720, USA  
 SO Heteroatom Chemistry (2002), 13(2), 108-115  
 CODEN: HETCE8; ISSN: 1042-7163  
 PB John Wiley & Sons, Inc.  
 DT Journal  
 LA English  
 OS CASREACT 137:169474  
 AB The reactions of 2-diazo-4,5,6,7-tetrahydrobenzo[b]thiophene derivs. with RCH2C(NH2):CRCN [R = CO2Et, CN] gave the hydrazone derivs. The reactivity of the latter products towards various chemical reagents was studied in order to provide azole and azine derivs. incorporating the thiophene ring, and most of them showed high antimicrobial activity.  
 IT 446253-92-5P  
 RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of bactericidal azoles, azines, and their fused derivs. from 2-diazo-4,5,6,7-tetrahydrobenzo[b]thiophene derivs.)  
 RN 446253-92-5 CAPLUS  
 CN 4-Pyrimidineacetonitrile, 6-amino-5-cyano-2-(cyanomethyl)- $\alpha$ -[2-(3-cyano-4,5,6,7-tetrahydrobenzo[b]thien-2-yl)hydrazinylidene]- (CA INDEX NAME)



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1979:420462 CAPLUS  
 DN 91:20462  
 OREF 91:3425a,3428a  
 TI Synthesis of 1,2,4-oxadiazines and their rearrangement to pyrimidines  
 AU Santilli, Arthur A.; Scotese, Anthony C.  
 CS Res. Dev. Div., Wyeth Lab., Inc., Radnor, PA, 19087, USA  
 SO Journal of Heterocyclic Chemistry (1979), 16(2), 213-16  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DT Journal  
 LA English  
 OS CASREACT 91:20462  
 AB Several amide oximes underwent condensation reactions with  
 MeO2CC.tplbond.CC02Me to give 1:1 adducts. Under basic conditions, these  
 adducts underwent ring closure to give several Me  
 [3-(substituted)-4,5-dihydro-5-oxo-6H-1,2,4-oxadiazin-6-ylidene]acetates,  
 e.g. 1. The reactions of these compds. with a variety of amines resulted  
 in addition-rearrangement reactions with the formation of the corresponding  
 Me 2-substituted-5-substituted amino-1,6-dihydro-6-oxo-4-  
 pyrimidinecarboxylates.  
 IT 70492-18-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 70492-18-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5,5'-hydrazobis[2-(4-chlorophenyl)-1,6-  
 dihydro-6-oxo-, dihydrazide (9CI) (CA INDEX NAME)



10/581,897

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

28.70

215.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

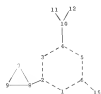
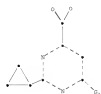
SESSION

CA SUBSCRIBER PRICE

-4.10

-4.10

STN INTERNATIONAL LOGOFF AT 10:35:20 ON 17 FEB 2009



```

chain nodes :
  10 11 12 15
ring nodes :
  1 2 3 4 5 6 7 8 9
chain bonds :
  2-8 4-10 6-15 10-11 10-12
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9
exact/norm bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 6-15 10-11 10-12
exact bonds :
  2-8 4-10 7-8 7-9 8-9
isolated ring systems :
  containing 1 : 7 :

```

G1:O,Cl

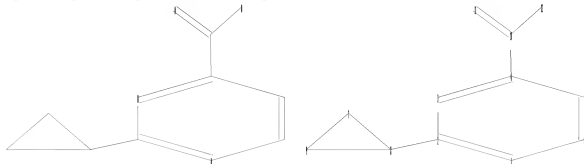
```

Match level :
  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS
  12:CLASS 15:CLASS

```

=&gt;

Uploading C:\Program Files\Stnexp\Queries\10581897 (claims 15-17).str



chain nodes :

10 11 12

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

2-8 4-10 10-11 10-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9

exact/norm bonds :

10-11 10-12

exact bonds :

2-8 4-10 7-8 7-9 8-9

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 7 :

Match level :

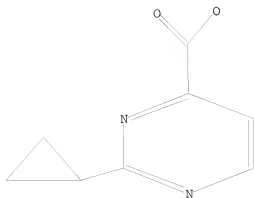
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
 11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

=&gt; d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s ll sss sam

SAMPLE SEARCH INITIATED 11:26:37 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 74 TO ITERATE

100.0% PROCESSED 74 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 964 TO 1996

PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> => ....Testing the current file.... screen

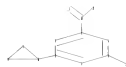
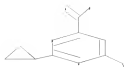
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 1840 OR 2039 OR 2040 OR 2045 OR 2047

L3 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (claims 15-17 A).str



```

chain nodes :
10 11 12 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
2-8 4-10 6-15 10-11 10-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9
exact/norm bonds :
6-15 10-11 10-12
exact bonds :
2-8 4-10 7-8 7-9 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 :

```

G1:O,C1

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:CLASS 12:CLASS 15:CLASS

L4 STRUCTURE UPLOADED

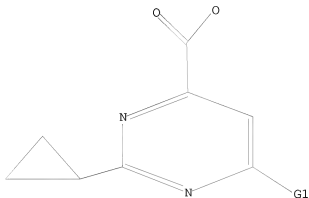
=> que L4 NOT L3

L5 QUE L4 NOT L3

=> d l5

L5 HAS NO ANSWERS

L3 SCR 2016 OR 2026 OR 1840 OR 2039 OR 2040 OR 2045 OR 2047  
L4 STR



Structure attributes must be viewed using STN Express query preparation.  
L5 QUE L4 NOT L3

=> s l5 sss sam

SAMPLE SEARCH INITIATED 11:30:38 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L4 NOT L3

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

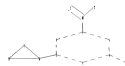
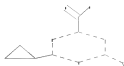


=> screen 2016 OR 2026 OR 1840 OR 2039 OR 2040 OR 2045 OR 2047

L7 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (claims 15-17 B).str



```

chain nodes :
10 11 12 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
2-8 4-10 6-15 10-11 10-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 6-15 10-11 10-12
exact bonds :
2-8 4-10 7-8 7-9 8-9
isolated ring systems :

```

containing 1 : 7 :

G1:O,C1

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:CLASS 12:CLASS 15:CLASS

L8 STRUCTURE UPLOADED

=> que L8 NOT L7

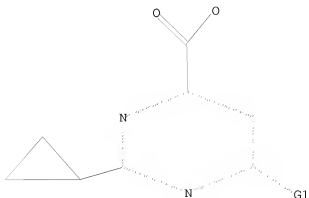
L9 QUE L8 NOT L7

=> d l9

L9 HAS NO ANSWERS

L7 SCR 2016 OR 2026 OR 1840 OR 2039 OR 2040 OR 2045 OR 2047

L8 STR



G1 O,C1

Structure attributes must be viewed using STN Express query preparation.

L9 QUE L8 NOT L7

=> s l9 sss sam

SAMPLE SEARCH INITIATED 11:32:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

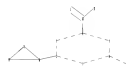
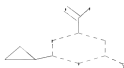
PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L8 NOT L7

=&gt;

Uploading C:\Program Files\Stnexp\Queries\10581897 (claims 15-17 C).str



```

chain nodes :
10 11 12 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
2-8 4-10 6-15 10-11 10-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 6-15 10-11 10-12
exact bonds :
2-8 4-10 7-8 7-9 8-9
isolated ring systems :
containing 1 : 7 :

```

G1:O,C1

Match level :

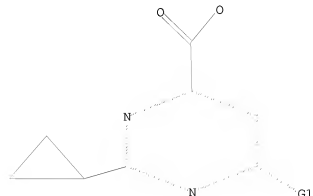
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
 11:CLASS 12:CLASS 15:CLASS

L11 STRUCTURE UPLOADED

=&gt; d l11

L11 HAS NO ANSWERS

L11 STR



G1 O,Cl

Structure attributes must be viewed using STN Express query preparation.

=&gt; s l11 sss sam

SAMPLE SEARCH INITIATED 11:34:12 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3 TO 163

PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

=&gt; s l11 sss ful

FULL SEARCH INITIATED 11:34:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 89 TO ITERATE

100.0% PROCESSED 89 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

L13 6 SEA SSS FUL L11

```
=> => s l13
L14      4 L13
=> d l14 1-4 bib,ab,hitstr
```

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2008:1503766 CAPLUS  
 DN 150:49541  
 TI Herbicidal compositions containing piperazinediones, other active substances, and safeners  
 IN Hupe, Eike; Moberg, William Karl; Reinhard, Robert; Sievernich, Bernd; Kibler, Elmar  
 PA Basf SE, Germany  
 SO PCT Int. Appl., 163pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

| PATENT NO.       | KIND   | DATE     | APPLICATION NO. | DATE     |
|------------------|--|----------|-----------------|----------|
| PI WO 2008152074 | A1   | 20081218 | WO 2008-EP57330 | 20080611 |
| W:               | AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW |          |                 |          |
| RW:              | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM   |          |                 |          |

PRAI EP 2007-110126 A 20070612

OS MARPAT 150:49541

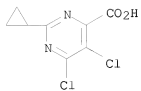
AB Herbicidally effective compns. comprise  $\geq 1$  piperazindione compound (I, where Rx, Ry = H or together signify a chemical bond; R1 = CN, NO2; R2 = H, F, Cl, C1-2 alkyl, ethenyl, or C1-2 alkoxy; R3 = F, H; R4 = Me; R5, R6 = H, Me, Et; R7 = H, halo);  $\geq 1$  further active substance, selected from lipid biosynthesis inhibitors, acetolactate synthesis inhibitors (ALS inhibitors), photosynthesis inhibitors, protoporphyrinogen IX oxidase inhibitors, bleaching herbicides, enolpyruvylshikimate-3-phosphate synthesis inhibitors (EPSP inhibitors), glutamine synthesis inhibitors, 7,8-dihydroxypicrate synthesis inhibitors (DHP inhibitors), mitosis inhibitors, inhibitors of the synthesis of very-long-chain fatty acids (VLCFA inhibitors), cellulose biosynthesis inhibitors, decoupling herbicides, auxin herbicides, auxin transport inhibitors, and other herbicides; and safeners. Thus, a synergistic mixture of 2-(5-benzyl-1,4,5-trimethyl-3,6-dioxopiperazin-2-ylidenemethyl)benzonitrile (preparation given) + prosulfocarb at 125 + 1000 g/ha showed 100% herbicidal activity against Alopecurus myosuroides.

IT 858956-27-1D, and salts and esters, mixts. with piperazinediones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic herbicides containing piperazinediones, other active substances, and safeners)

RN 858956-27-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5,6-dichloro-2-cyclopropyl- (CA INDEX NAME)



RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2006:1201993 CAPLUS  
 DN 145:505468  
 TI Process for preparation of optionally 2-substituted  
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts and  
 carboximidamides  
 IN ~~Shapiro, Refel~~  
 PA E. I. Du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 36pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

common assignee

|      | PATENT NO.      | KIND   | DATE     | APPLICATION NO.  | DATE     |
|------|-----------------|--|----------|------------------|----------|
| PI   | WO 2006121648   | A2   | 20061116 | WO 2006-US16340  | 20060428 |
|      | WO 2006121648   | A3   | 20061228 |                  |          |
|      | W:              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                  |          |
|      | RW:             | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM   |          |                  |          |
|      | AU 2006246374   | A1   | 20061116 | AU 2006-246374   | 20060428 |
|      | CA 2607934      | A1   | 20061116 | CA 2006-2607934  | 20060428 |
|      | EP 1877384      | A2   | 20080116 | EP 2006-751830   | 20060428 |
|      | R:              | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU   |          |                  |          |
|      | JP 2008540414   | T  | 20081120 | JP 2008-540079   | 20060428 |
|      | US 20090043098  | A1   | 20090212 | US 2007-886605   | 20070917 |
|      | IN 2007DN08215  | A  | 20071123 | IN 2007-DN8215   | 20071024 |
|      | MX 2007013424   | A  | 20080116 | MX 2007-13424    | 20071026 |
|      | KR 2008006576   | A  | 20080116 | KR 2007-725602   | 20071105 |
|      | CN 101171237    | A  | 20080430 | CN 2006-80015454 | 20071106 |
| PRAI | US 2005-678264P | F  | 20050506 |                  |          |
|      | WO 2006-US16340 | W  | 20060428 |                  |          |

no ODP  
process claims

OS CASREACT 145:505468; MARPAT 145:505468  
 AB Title compds. [I; R1 = H, (substituted) carbon moiety], were prepared by contacting R2O2C(MO)C:CHCO2R3 (M = alkali metal; R2, R3 = alkyl) with a base and water to provide MO2C(MO)C:CHCO2R3 (variables as above) in solution and contacting the latter with R1C(:NH)NH2 (R1 as above) in the presence of a second base to maintain pH 9-12, followed by addition of acid. Thus, a mixture of H2O/denatured EtOH was treated with di-Et oxalacetate Na salt over 10 min; aqueous NaOH was then added over 1 h followed by stirring for 30 min. Cyclopropanecarboximidamide hydrochloride (preparation given) in H2O and then aqueous NaOH were added over 1 h to pH 10.5-11.5. The solution was heated to 60° over 1 h followed by cooling to 45-50° and treatment with aqueous HCl to give 85% 2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid. The latter was converted to Me 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

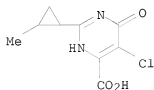


IT 1042145-40-3

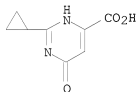
RL: PRPH (Prophetic)

(Process for preparation of optionally 2-substituted  
1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts  
and carboximidamides)

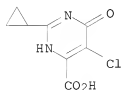
RN 1042145-40-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-1,6-dihydro-2-(2-methylcyclopropyl)-  
6-oxo- (CA INDEX NAME)IT 858956-25-9P, 2-Cyclopropyl-1,6-dihydro-6-oxo-4-  
pyrimidinecarboxylic acid 858956-26-0P,  
5-Chloro-2-Cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid  
858956-27-1P, 5,6-Dichloro-2-cyclopropyl-4-pyrimidinecarboxylic  
acidRL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic  
preparation); PREP (Preparation); RACT (Reactant or reagent)(prepn of optionally substituted dihydrooxypyrimidinecarboxylic acids  
from oxalacetate salts and carboximidamides)

RN 858956-25-9 CAPLUS

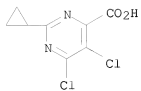
CN 4-Pyrimidinecarboxylic acid, 2-cyclopropyl-1,6-dihydro-6-oxo- (CA INDEX  
NAME)

RN 858956-26-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-1,6-dihydro-6-oxo-  
(CA INDEX NAME)

RN 858956-27-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5,6-dichloro-2-cyclopropyl- (CA INDEX NAME)



RE.CNT 1      THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:612265 CAPLUS  
 DN 143:133387  
 TI Preparation of herbicidal pyrimidines  
 IN Clark, David Alan; Finkelstein, Bruce Lawrence; Armel, Gregory Russell;  
 Wittenbach, Vernon Arie  
 PA E. I. Dupont de Nemours and Company, USA  
 SO PCT Int. Appl., 151 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

Applicant's

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|--|------|----------|------------------|----------|
| PI   | WO 2005063721  | A1   | 20050714 | WO 2004-US42302  | 20041216 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  |      |          |                  |          |
|      | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                  |          |
|      | AU 2004309325  | A1   | 20050714 | AU 2004-309325   | 20041216 |
|      | CA 2548058   | A1   | 20050714 | CA 2004-2548058  | 20041216 |
|      | EP 1694651   | A1   | 20060830 | EP 2004-814481   | 20041216 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS  |      |          |                  |          |
|      | CN 1894220   | A    | 20070110 | CN 2004-80037819 | 20041216 |
|      | BR 2004017279  | A    | 20070313 | BR 2004-17279    | 20041216 |
|      | JP 2007534649  | T    | 20071129 | JP 2006-545441   | 20041216 |
|      | IN 2006DN03045   | A    | 20070803 | IN 2006-DN3045   | 20060526 |
|      | US 20070197391   | A1   | 20070823 | US 2006-581897   | 20060605 |
|      | KR 2006114345  | A    | 20061106 | KR 2006-712063   | 20060616 |
|      | MX 2006007033  | A    | 20060831 | MX 2006-7033     | 20060619 |
| PRAI | US 2003-531300P  | P    | 20031219 |                  |          |
|      | US 2004-598397P  | P    | 20040803 |                  |          |
|      | WO 2004-US42302  | W    | 20041216 |                  |          |
| OS   | CASREACT 143:133387; MARPAT 143:133387   |      |          |                  |          |
| AB   | The title compds. I [R1 = (un)substituted cyclopropyl, iso-Pr, or Ph; R2 = ((O)jC(R15)(R16))kR; R = CO2H or a herbicidally effective derivative of CO2H; R3 = halo, CN, NO2, OR20, SR21 or N(R22)R23; R4 = N(R24)R25 or NO2; j = 0-1; k = 0-1; provided that when k = 0, then j = 0; R15, R16 = H, halo, alkyl, etc.; R20, R21 = H, alkyl, haloalkyl; R22, R23 = H, alkyl; R24 = H, alkyl, alkenyl, etc.; R25 = H, alkyl, C(OR)33; R33 = H, alkyl, haloalkyl, etc.; or R24 and R25 are taken together as a radical selected from (CH2)4, (CH2)5, etc.] which are useful for controlling undesired vegetation, were prepared E.g., a multi-step synthesis of Et 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (II) and Me 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (III), starting from Et 4,4-diethoxy-3-oxobutanoate and cyclopropanecarboximidamide monohydrochloride, was given. The compound II showed complete control against Pigweed at 500g ai/ha in postemergence test. Also disclosed are |      |          |                  |          |

comps. comprising the comps. I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound I. Also disclosed are comps. comprising a compound I and at least one addnl. active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

IT 858956-24-8P 858956-25-9P 858956-26-0P

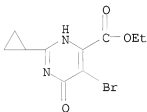
858956-27-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of herbicidal pyrimidines)

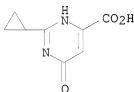
RN 858956-24-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-1,6-dihydro-6-oxo-, ethyl ester (CA INDEX NAME)



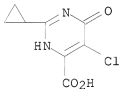
RN 858956-25-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 2-cyclopropyl-1,6-dihydro-6-oxo- (CA INDEX NAME)



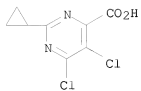
RN 858956-26-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-1,6-dihydro-6-oxo- (CA INDEX NAME)



RN 858956-27-1 CAPLUS

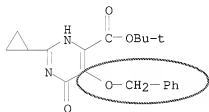
CN 4-Pyrimidinecarboxylic acid, 5,6-dichloro-2-cyclopropyl- (CA INDEX NAME)



RE.CNT 3      THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:371047 CAPLUS  
 DN 142:430286  
 TI A synthesis of 5-hydroxy-6-oxo-1,6-dihydropyrimidine derivatives, useful  
 as intermediates in the preparation of pharmacologically active compounds  
 IN Dreher, Spencer D.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 19 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 20050090668  | A1   | 20050428 | US 2004-954752  | 20040930 |
| PRAI | US 2003-514880P   | P    | 20031028 |                 |          |
| OS   | CASREACT 142:430286; MARPAT 142:430286  |      |          |                 |          |
| AB   | The invention relates to a preparation of 5-hydroxy-6-oxo-1,6-dihydropyrimidine<br>derivs. of formula I [wherein: R1 is H, alkoxy, (cyclo)alkyl, or aryl,<br>etc.; R2 is alkyl, aryl, or alkylenearyl, etc.; R3 is alkyl], useful as<br>intermediates in the preparation of pharmacol. active compds. The invention<br>compds. were prepared by condensation of dihydroxyfumarate derivs. with<br>amidines. For instance, 5-hydroxy-6-oxo-1,6-dihydropyrimidine derivative II<br>was prepared via heterocyclization/condensation of fumarate derivative III with<br>cyclopropane-1-carboximidamide with a yield of 92%. |      |          |                 |          |
| IT   | 850655-99-1P<br>RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP<br>(Preparation)<br>(synthesis of 5-hydroxy-6-oxo-1,6-dihydropyrimidine derivs. useful as<br>intermediates in the preparation of pharmacol. active compds.)   |      |          |                 |          |
| RN   | 850655-99-1 CAPLUS  |      |          |                 |          |
| CN   | 4-Pyrimidinecarboxylic acid, 2-cyclopropyl-1,6-dihydro-6-oxo-5-<br>(phenylmethoxy)-, 1,1-dimethylethyl ester (CA INDEX NAME)  |      |          |                 |          |



not good for claims 15-17  
 Claim 1 and dep. claims  
 require a N containing  
 group at the 6-position  
 (see defn of R4)

10/581,897

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

23.06

215.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.28

-3.28

STN INTERNATIONAL LOGOFF AT 11:35:17 ON 17 FEB 2009